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| **CURRICULUM VITAE**  **Titus K Schleyer, DMD, PhD**  **Indiana University** |

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| **Business Address:** | Regenstrief Institute  1101 W 10th St.  Indianapolis, IN 46202 | **Business Phone:** | (317) 274-9204 |
| **Email Address:** | [schleyer@regenstrief.org](mailto:schleyer@regenstrief.org) |  |  |

**Education and training**

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| 1/1995 | The Fox School of Business, Temple University, Philadelphia, PA | MBA, Health Administration |
| 8/1989-5/1991 | Temple University, School of Dentistry  Philadelphia, PA | DMD |
| 1989 | School of Dentistry and School of Medicine, Goethe University Frankfurt, Frankfurt am Main, Hessen, Germany | PhD, Molecular Biology  magna cum laude |
| 9/1982-12/1987 | School of Dentistry, Goethe University Frankfurt, Frankfurt am Main, Hessen, Germany | DMD |

**Appointments and positions**

**Academic**

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| --- | --- | --- |
| 6/1/2013 - present  **(****main position)** | School of Medicine  Indiana University  Indianapolis, IN | Professor of Biomedical Informatics (tenured)  Department of Medicine |
| 6/2022 - present | Director, Informatics | Indiana CTSI |
| 1/1/2020 - present | Member, Executive Committee, Learning Health System Young Investigator Program | Regenstrief Institute |
| 1/1/2020 - present | Mentor, Advanced Scholars Program for Internists in Research and Education (ASPIRE) | Department of Medicine |
| 7/1/2017 - present | Indiana Public and Population Health Informatics Training Program (NLM T15-funded) | Co-director |
| 11/1/2017 - present | IU Richard M. Fairbanks School of Public Health | Faculty Fellow, Center for Health Policy |
| 10/1/2017 - present | Regenstrief Institute, Center for Biomedical Informatics  Indianapolis, IN | Program Director, Learning Health Informatics |
| 6/1/2017 - present | Founder and Director, Indiana Learning Health System Initiative | Regenstrief Institute, Indianapolis, IN |
| 5/10/2017 - present | IU Richard M. Fairbanks School of Public Health | Adjunct Professor, Department of Health Policy and Management |
| 10/1/2016 - present | IU School of Medicine  Indiana University, Indiana, IN | Adjunct Professor, Center for Computational Biology and Bioinformatics |
| 7/1/2016 - present | IU School of Informatics & Computing, Indiana University, Indianapolis, IN | Adjunct Professor, Department of BioHealth Informatics |
| 1/1/2016 - present | Regenstrief Institute  Indianapolis, IN | Research Scientist, Center for Biomedical Informatics |
| 7/1/2013 - present | School of Medicine  University of Pittsburgh  Pittsburgh, PA | Adjunct Associate Professor,  Department of Biomedical Informatics |
| 6/1/2013 - 12/31/2015 | Regenstrief Institute  Indianapolis, IN | Director,  Center for Biomedical Informatics |
| 6/2013 - present | Indiana University | Member  Graduate Faculty |
| 6/2013 - 6/2015 | School of Medicine  Indiana University | Director, Informatics and Data Analysis Core  Clinical and Translational Science Institute |
| 1/2011 - 5/2013 | School of Information Sciences  University of Pittsburgh  Pittsburgh, PA | Associate Professor |
| 10/2008 - 5/2013 | University of Pittsburgh  Pittsburgh, PA | Associate Professor,  Clinical and Translational Science Institute |
| 5/2007 - 5/2013 | School of Medicine  University of Pittsburgh  Pittsburgh, PA | Associate Professor,  Department of Biomedical Informatics |
| 12/2003 - 5/2013 | University of Pittsburgh  Pittsburgh, PA | Member  Graduate Faculty |
| 1/2002 - 5/2013 | School of Dental Medicine  University of Pittsburgh  Pittsburgh, PA | Associate Professor (tenured) and Director,  Center for Dental Informatics |
| 7/1996 - 12/2001 | School of Dentistry  Temple University  Philadelphia, PA | Associate Professor (tenured) and Chair,  Department of Dental Informatics |
| 7/1996 - 5/2013 | School of Medicine  University of Pittsburgh  Pittsburgh, PA | Co-director, Biomedical Informatics Training Program  Center/Department of Biomedical Informatics |
| 8/1995 - 6/1996 | School of Dentistry  Temple University  Philadelphia, PA | Associate Professor (tenured),  Department of Operative Dentistry |
| 7/1991 - 6/1996 | School of Dentistry  Temple University  Philadelphia, PA | Director, Computer Support Services |
| 8/1989 - 7/1995 | School of Dentistry  Temple University  Philadelphia, PA | Assistant Professor  Department of Operative Dentistry |

**Part-time/non-academic**

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| 10/1/2017 - present | Indiana University Health | Director, Learning Health Informatics |
| 2016 - 2019 | hc1.com  Indianapolis, IN | Advisor (part time) |
| 1996 - 2011 | S3 Web Technologies, LLC  Pittsburgh, PA | Founding partner |
| 1988 - 1989 | Deutsche Bundeswehr  Wildflecken, Germany | Dentist (rank: captain) |
| 1988 - 1989 | Dr. Scheublein/private practice  Hammelburg, Germany | Dentist (part-time) |
| 1986 - 1987 | School of Dentistry, University of Frankfurt am Main, Germany | System Administrator (part time) |
| 1985 - 1987 | MEL Dr. Neuhaus GmbH  Wiesbaden, Germany | Information technology consultant |
| 1984 - 1985 | School of Medicine, University of Frankfurt am Main, Germany | Systems Analyst (part time),  Department of Medical Informatics |

**Certification and licensure**

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| 2022 - present | AMIA Certified Health Informatics Professional |
| 2000 - present | Microsoft Certified Systems Engineer, 1539220 |
| 1991 - 2017 | PA State Board of Dentistry  Dentistry, DS 027908 L |
| 1990 - 2017 | Basic Cardiac Life Support |
| 1988 - present | Kassenzahnärztlicher Bundesverband  Dentistry, 80577 |

**Membership in professional and scientific societies**

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| 2021 - present | Member, American Heart Association |
| 2018 - present | Member, HL7 Fast Healthcare Interoperability Resources Foundation |
| 2008 - 2020 | Member, International & American Associations for Dental Research |
| 2006 - present | Member, Association for Computing Machinery |
| 1995 - 2013 | Member, American Dental Association |
| 1994 - present | Member, American Medical Informatics Association |
| 1993 - present | Member, The Institute of Electrical and Electronics Engineers |
| 1990 - 2007 | Member, Foresight Institute |
| 1989 - 2019 | Member, American Dental Education Association |
| 1983 - 2018 | Member, Gesellschaft für Medizinische Informatik, Biometrie und Statistik |

**Honors and awards**

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| 2020 | Regenstrief Institute Outstanding Investigator Award (CBMI) |
| 2020 | Indiana University Trustees’ Teaching Award |
| 2018 - present | Fellow, American Medical Informatics Association |
| 2019 | Distinguished Poster award, Towards measuring real-world vs. theoretical impact: Development of an enhanced method evaluating health information exchange (HIE). AMIA 2019 Annual Fall Symposium (mentor) |
| 2018 | Distinguished Poster award, Leveraging FHIR to integrate information from a health information exchange directly with the clinical workflow in Cerner, AMIA 2018 Annual Fall Symposium |
| 2018 | Distinguished Poster award, Developing a national dashboard to help manage the opioid epidemic using toxicology laboratory results data, AMIA 2018 Annual Fall Symposium |
| 2018 | Best presentation, One-click Integration of Information from the Indiana Network for Patient Care with Cerner, Indiana School of Medicine 3rd Annual Patient Safety and Quality Day (mentor) |
| 2018 | Innovation of the Year, Strategic Health Information Exchange Collaborative |
| 2018 | Nominee for Innovation of the Year, TechPoint |
| 2017 | 1st Place, Inaugural American Medical Informatics Association Pitch IT Competition (FHIR HIEdrant project) |
| 2013 - 2017 | Clem McDonald Professor of Biomedical Informatics |
| 2009 - present | Fellow, American College of Medical Informatics |
| 2005 - present | Fellow, American College of Dentists |
| 1995 - present | Member, Beta Gamma Sigma |
| 1997 - 2001 | Laura Carnell Professor of Dentistry, Temple University School of Dentistry |
| 1999 | Dental Visionary, American Student Dental Association |

**Publications**

**Peer-reviewed journal papers**

1. Mahendraker N, Gutierrez-Asis E, Park S, Williams LS, **Schleyer T**\*, Umberfield E\*. Using electronic health record mortality data to promote goals of care discussions in seriously ill transferred patients: A pilot study. Applied Clinical Informatics 2024 (in print)
2. Quarooni D, Herr B, Zappone S, Wojciechowska K, Borner K, Schleyer T. Visual analytics for data-driven understanding of the substance use disorder epidemic. INQUIRY Open January 2024. https://doi.org/10.1177/00469580241227020
3. Welch L, Brewer S, **Schleyer T**, Daudelin D, Paranal R, Hunt J, Dozier A, Perry A, Cabrera A, Gatto C. Learning health system benefits: Development and initial validation of a framework. Learning Health Systems Open July 2023. <https://doi.org/10.1002/lrh2.10380>
4. Zidan N, Dey V, Allen K, Price J, Zappone S, Hebert C, **Schleyer T**, Ning X. Understanding comorbidities and health disparities related to COVID-19: A comprehensive study of 776,936 cases and 1,362,545 controls in the state of Indiana, USA. JAMIA Open 2023 April 1. <https://doi.org/10.1093/jamiaopen/ooad002>
5. DeBar L, Bushey MA, Kroenke K, Bobb JF, Schoenbaum M, Thompson EE, Justice M, Zatzick D, Hamilton LK, McMullen CK, Hallgren KA, Benes LL, Forman DP, Caldeiro RM, Brown RP, Campbell NL, Anderson ML, Son S, Haggstrom DA, Whiteside L, **Schleyer TKL**, Bradley KA. A patient-centered nurse-supported primary care-based collaborative care program to treat opioid use disorder and depression: Design and protocol for the MI-CARE randomized controlled trial. Contemporary Clinical Trials 2023 April 1. <https://doi.org/10.1016/j.cct.2023.107124>
6. Rivera RL, Hosler H, Jang JH, Schaffer J, Price J, Vest JR, **Schleyer T**. Directly integrating health information exchange data with the electronic health record increases HIE use by emergency department clinicians. Appl Clin Inform Open 2023 September 28. <https://doi.org/10.1055/s-0043-1772583>
7. **Schleyer T**, Robinson B, Parmar S, Janowiak D, Gibson J, Spangler V. Could toxicology test results be useful for public health surveillance of the opioid epidemic? Online J Public Health Inform 2023 September 28. [doi:10.2196/50936](https://ojphi.jmir.org/2023/1/e50936/)
8. Fu H, Wyman JF, Peden-McAlpine CJ, Draucker Burke C, **Schleyer T**, Adam TJ. What app design features are important for diabetes self-management as determined by the Self-Determination Theory on motivation? A content analysis of survey responses from an app-test trial of 92 adults requiring insulin therapy. JMIR Preprints. 2022 August 4. <https://doi.org/10.2196/preprints.38592>
9. Griffin AC, He L, Sunjaya AP, King AJ, Khan Z, Nwadiugwu M, Douthit B, Subbian V, Nguyen V, Braunstein M, Jaffe C, **Schleyer T**. Clinical, technical, and implementation characteristics of real-world health applications using FHIR. JAMIA Open. 2022 Dec;5(4):ooac077. <https://doi.org/10.1093/jamiaopen/ooac077>
10. Huang S, Yang S, Ly S, Yoo R, Lo-Ciganic W, Eadon M, **Schleyer T**, Whipple E, Nguyen K. Clinical non-effectiveness of clopidogrel use for peripheral artery disease in patients with CYP2C19 polymorphisms: A systematic review. Eur J Clin Pharmacol. 2022 Jun 3;78:1217-1225. <https://doi.org/10.1007/s00228-022-03346-7>
11. Rogerson CM, Carroll AE, Tu W, He T, **Schleyer T**, Rowan CM, Owora AH, Mendonca EA. Frequency and correlates of pediatric high-flow nasal cannula use for bronchiolitis, Asthma, and Pneumonia. Respiratory Care. 2022 May 24. <https://doi.org/10.4187/respcare.09777>
12. Hosler HB, Jang JH, Schaffer JT, Price J, **Schleyer T**, Rivera RL. Does directly integrating health information exchange (HIE) data with the electronic health record increase HIE use by clinicians in the emergency department? medRxiv. 2022 Jan 1. <https://doi.org/10.1101/2022.05.20.22275255>
13. Taylor HL, Sen B, Holmes AM, **Schleyer T**, Menachemi N, Blackburn J. Does preventive dental care reduce nonpreventive dental visits and expenditures among Medicaid‐enrolled adults? Health Services Research. 2022 Apr 13. <https://doi.org/10.1111/1475-6773.13987>
14. Li S, Rajapuri A, Felix Gomez GG, **Schleyer T**, Mendonca EA, Thyvalikakath TP. How do dental clinicians obtain up-to-date patient medical histories? Modeling strengths, drawbacks, and proposals for improvements. Frontiers in Digital Health. 2022 Mar 28. https://doi:10.3389/fdgth.2022.847080
15. Tarumi S, Takeuchi W, Qi R, Ning X, Ruppert L, Ban H, Robertson DH, **Schleyer T**, Kawamoto K. Predicting pharmacotherapeutic outcomes for type 2 diabetes: An evaluation of three approaches to leveraging electronic health record data from multiple sources. Journal of Biomedical Informatics. 2022 Jan 29:104001.
16. **Schleyer T**, Williams L, Gottlieb J, Weaver C, Saysana M, Azar J, Sadowski J, Frederick C, Hui S, Kara A, Ruppert L. The Indiana Learning Health System Initiative: Early experience developing a collaborative, regional learning health system. Learn Health Syst 2021 Jul;5(3):e10281
17. Hill JR, Visweswaran S, Ning X, **Schleyer T**. Use, impact, weaknesses, and advanced features of search functions for clinical use in electronic health records: A scoping review. Appl Clin Inform 2021 May;12(03):417-28
18. Ning X, Fan Z, Burgun E, Ren Z, **Schleyer T**. Improving information retrieval from electronic health records using dynamic and multi-collaborative filtering. PLoS One 2021 Aug 5;16(8):e0255467
19. Ren Z, Peng B, **Schleyer T**, Ning X. Hybrid collaborative filtering methods for recommending search terms to clinicians. J Biomed Inform 2021; 113:103635. PMID: 33307213. doi: [10.1016/j.jbi.2020.103635](https://doi.org/10.1016/j.jbi.2020.103635)
20. Nguyen K, Eadon M, Yoo R, Milway E, Kenneally A, Fekete K, Oh H, Duong K, Whipple E, **Schleyer T**. Risk factors for bleeding and clinical ineffectiveness associated with clopidogrel therapy: A comprehensive meta‐analysis. Clin Transl Sci 2021; PMID: 33202084. doi: [10.1111/cts.12926](https://ascpt.onlinelibrary.wiley.com/doi/10.1111/cts.12926)
21. Taylor HL, Rahurkar S, Treat TJ, Thyvalikakath TP, **Schleyer T**. Does non-surgical periodontal treatment improve systemic health? J Dent. Res. 2021; PMID: 33089733. doi: [10.1177/0022034520965958](https://pubmed.ncbi.nlm.nih.gov/33089733/)
22. Haendel MA, Chute CG, Kenneth G, **The National COVID Cohort Collaborative (N3C).** The National COVID Cohort Collaborative (N3C): Rationale, design, infrastructure, and deployment. JAMIA 2020; PMID: 32805036. doi: [10.1093/jamia/ocaa196](https://doi.org/10.1093/jamia/ocaa196)
23. Thyvalikakath TP, Duncan WD, Siddiqui Z, LaPradd M, Eckert G, **Schleyer T,** Rindal DB, Jurkovich M, Shea T, Gilbert GH, & National Dental PBRN Collaborative Group. Leveraging electronic dental record data for clinical research in the National Dental PBRN practices. Appl Clin Inform 2020; 11(02): 305-314. doi: [10.1055/S-0040-1709506](http://doi.org/10.1055/S-0040-1709506)
24. Duncan WD, Thyvalikakath T, Haendel M, Torniai C, Hernandez P, Song M, Acharya A, Caplan DJ, **Schleyer T**, Ruttenberg A. Structuring, reuse and analysis of electronic dental data using the Oral Health and Disease Ontology. J. Biomed. Semant 2020; 11(1):8. PMID: 32819435. doi: [10.1186/s13326-020-00222-0](https://doi.org/10.1186/s13326-020-00222-0)
25. Ravizza S, Huschto T, Adamov A, Böhm L, Büsser A, Flöther FF, Hinzmann R, König H, McAhren S, Robertson D, **Schleyer T**, Schneidinger B, Petrich W. Predicting the early risk of chronic kidney disease in patients with diabetes using real-world data. Nat Med. 2019;25(1):57–9. PMID: [30617317](https://www.ncbi.nlm.nih.gov/pubmed/?term=30617317). doi: [10.1038/s41591-018-0239-8](https://doi.org/10.1038/s41591-018-0239-8)
26. **Schleyer T**, Hui S, Wang J, Zhang Z, Knapp K, Baker J, Chase M, Boggs R, Jr. Simpson RJ. Quantifying unmet need in statin-treated hyperlipidemia patients and the potential benefit of further LDL-C reduction through an EHR-based, retrospective cohort study. J Manag Care Spec Pharm. 2018; 1-32. PMID: [31039062](https://www.ncbi.nlm.nih.gov/pubmed/?term=31039062)
27. Nguyen K, Li L, Lu D, Yazdanparast A, Wang L, Kreutz R, Whipple EC, **Schleyer T**. A comprehensive review and meta-analysis of risk factors for statin-induced myopathy. Eur J Clin Pharmacol [Internet]. 2018 Sep; 74(9):1099–109. PMID: [29785580](https://www.ncbi.nlm.nih.gov/pubmed/?term=29785580). doi: [10.1007/s00228-018-2482-9](https://doi.org/10.1007/s00228-018-2482-9)
28. Thyvalikakath T, Song M, **Schleyer T**. Perceptions and attitudes toward performing risk assessment for periodontal disease: A focus group exploration. BMC Oral Health. 2018 May 21; 18:90. PMID: [29783966](https://www.ncbi.nlm.nih.gov/pubmed/?term=29783966)
29. Chiang W-H, **Schleyer T**, Shen L, Li L, Ning X. Pattern discovery from high-order drug-drug Interaction relations. J Health Informatics Res. 2018 Sep 18; 2(3):272–304. doi: [10.1007/s41666-018-0020-2](https://doi.org/10.1007/s41666-018-0020-2)
30. Zhang P, Li M, Chiang C, Wang L, Xiang Y, Cheng L, Feng W, **Schleyer T**, et al. Three-component mixture model-based adverse drug event signal detection for the adverse event reporting system. CPT Pharmacometrics Syst Pharmacol. 2018 Aug 9;7(8):499–506. PMID: 30091855. PMCID: PMC6118321. doi: [10.1002/psp4.12294](https://doi.org/10.1002/psp4.12294)
31. Bateman DR, Srinivas B, Emmett TW, **Schleyer T**, Holden RJ, Hendrie HC, et al. Categorizing health outcomes and efficacy of mHealth apps for persons with cognitive impairment: A systematic review. J Med Internet Res. 2017 Aug 30;19(8):301. Available from: http://www.jmir.org/2017/8/e301/
32. Vest JR, Harle CA, **Schleyer T**, Dixon BE, Grannis SJ, Halverson PK, Menachemi N, Getting from here to there: Health IT needs for population health. American Journal of Managed Care; 2016 Dec; 22(12):827-9. PMID: 27982666
33. Stein CD, Xiao X, Levine S, **Schleyer T**, Hochheiser H, Thyvalikakath TP. A prototype mobile application for triaging dental emergencies. Journal of The American Dental Association (1939). 2016 Oct; 147(10):782-791. PMID: 27206728. doi: [10.1016/j.adaj.2016.03.021](https://doi.org/10.1016/j.adaj.2016.03.021)
34. Thyvalikakath TP, Dziabiak MP, Johnson R, Torres-Urquidy MH, Acharya A, Yabes J, **Schleyer T**. Advancing cognitive engineering methods to support user interface design for electronic health records. International Journal of Medical Informatics. 2014 Apr; 83 (4):292-302. PMCID: PMC3977320. PMID: 24503391.
35. Rush WA, **Schleyer T**, Kirshner M, Boyle R, Thoele MJ, Lenton PA, Asche S, Thyvalikakath T, Spallek H, Durand EC, Enstad CJ, Huntley CL, Rindal DB. Integrating tobacco dependence counseling into electronic dental records: A multi-method approach. Journal of Dental Education. 2014 Jan; 78(1):31-9. PMID: 24385522.
36. Borromeo CD, **Schleyer T**, Becich MJ, Hochheiser H. Finding collaborators: Toward interactive discovery tools for research network systems. Journal of Medical Internet Research. 2014 Nov 4; 16 (11):e244. PMCID: PMC4376239. PMID: 25370463.
37. Acharya A, Hernandez P, Thyvalikakath T, Ye H, Song M, **Schleyer T**. Development and initial validation of a content taxonomy for patient records in general dentistry. International Journal of Medical Informatics. 2013 Dec; 82(12):1171-82. PMCID: PMC3840041. PMID: 23838618.
38. Liu K, Acharya A, Alai S, **Schleyer T**. Using electronic dental record data for research: A data-mapping study. Journal of Dental Research. 2013 Jul; 92:90S-6S. PMCID: PMC3706179. PMID: 23690362.
39. Song M, Liu K, Abromitis R, **Schleyer TL**. Reusing electronic patient data for dental clinical research: A review of current status. Journal of Dentistry. 2013 Apr 18; 41(12):1148-63. PMID: 23603087.
40. Rindal DB, Rush WA, **Schleyer T**, Kirshner M, Boyle RG, Thoele MJ, Asche SE, Thyvalikakath T, Spallek H, Durand EC, Enstad CJ, Huntley CL. Computer-assisted guidance for dental office tobacco-cessation counseling: A randomized controlled trial. American Journal of Preventive Medicine. 2013 Mar; 44 (3):260-4. PMCID: PMC3579569. PMID: 23415123.
41. **Schleyer T**, Song M, Gilbert GH, Rindal DB, Fellows JL, Gordan VV, Funkhouser E. Electronic dental record use and clinical information management patterns among practitioner-investigators in The Dental Practice-Based Research Network. Journal of The American Dental Association (1939). 2013 Jan; 144 (1):49-58. PMCID: PMC3539217. PMID: 23283926.
42. **Schleyer T**, Butler BS, Song M, Spallek H. Conceptualizing and advancing research networking systems. ACM Transactions on Computer-human Interaction. 2012 Mar 1; 19 (1). PMCID: PMC3872832. PMID: 24376309. doi: 10.1145/2147783.2147785
43. Lee DH, **Schleyer T**. Social tagging is no substitute for controlled indexing: A comparison of Medical Subject Headings and CiteULike tags assigned to 231,388 papers. Journal of the American Society for Information Science and Technology. 2012 Aug 17; 63 (9):1747-57. [doi.org/10.1002/asi.22653](https://doi.org/10.1002/asi.22653)
44. Weber GM, Barnett W, Conlon M, Eichmann D, Kibbe W, Falk-Krzesinski H, Halaas M, Johnson L, Meeks E, Mitchell D, **Schleyer T**, Stallings S, Warden M, Kahlon M, Direct2Experts Collaboration. Direct2Experts: A pilot national network to demonstrate interoperability among research-networking platforms. Journal of The American Medical Informatics Association: JAMIA. 2011 Dec; 18: i157-60. PMCID: PMC3241163. PMID: 22037890. doi: 10.1136/amiajnl-2011-000200
45. **Schleyer T**, Thyvalikakath TP, Spallek H, Dziabiak MP, Johnson LA. From information technology to informatics: The information revolution in dental education. Journal of Dental Education. 2012 Jan; 76 (1):142-53. PMID: 22262557.
46. **Schleyer T**, Mattsson U, Ní Ríordáin R, Brailo V, Glick M, Zain RB, Jontell M. Advancing oral medicine through informatics and information technology: A proposed framework and strategy. Oral Diseases. 2011 Apr; 17:85-94. PMID: 21382141.
47. Irwin JY, Thyvalikakath T, Spallek H, Wali T, Kerr AR, **Schleyer T**. English and Spanish oral cancer information on the Internet: A pilot surface quality and content evaluation of oral cancer Web sites. Journal of Public Health Dentistry. 2011 Spring; 71(2):106-16. PMID: 21774133.
48. **Schleyer T**, Thyvalikakath T, Smailagic A. Informatics innovation in clinical care: A visionary scenario for dentistry. Electronic Journal of Health Informatics. 2011; 6 (4):1-9.
49. Song M, Spallek H, Polk D, **Schleyer T**, Wali T. How information systems should support the information needs of general dentists in clinical settings: Suggestions from a qualitative study. BMC Medical Informatics and Decision Making. 2010 Feb 2; 10:7. PMCID: PMC2843644. PMID: 20122272.
50. Irwin JY, Torres-Urquidy MH, **Schleyer T**, Monaco V. A preliminary model of work during initial examination and treatment planning appointments. British Dental Journal. 2009 Jan 10; 206 (1):24-5. PMID: 19119286.
51. Torres-Urquidy MH, Wallstrom G, **Schleyer T**. Detection of disease outbreaks by the use of oral manifestations. Journal of Dental Research. 2009 Jan; 88(1):89-94. PMID: 19131324.
52. Acharya A, **Schleyer T**. Electronic dental record information model. International Journal of Medical Engineering and Informatics. 2009; 1(4):418-434.
53. Thyvalikakath TP, Monaco V, Thambuganipalle HB, **Schleyer T**. A usability evaluation of four commercial dental computer-based patient record systems. Journal of the American Dental Association. 2008 Dec; 139 (12):1632-42. PMCID: PMC2614265. PMID: 19047669.
54. Cox MJ, **Schleyer T**, Johnson LA, Eaton KA, Reynolds PA. Making a mark--taking assessment to technology. British Dental Journal. 2008 Jul 12; 205(1):33-9. PMID: 18617943.
55. Spallek H, Butler BS, **Schleyer T**, Weiss PM, Wang X, Thyvalikakath TP, Hatala CL, Naderi RA. Supporting emerging disciplines with e-communities: Needs and benefits. Journal of Medical Internet Research. 2008; 10 (2): e19. PMCID: PMC2483921. PMID: 18653443.
56. **Schleyer T**, Spallek H, Butler BS, Subramanian S, Weiss D, Poythress ML, Rattanathikun P, Mueller G. Facebook for scientists: Requirements and services for optimizing how scientific collaborations are established. Journal of Medical Internet Research. 2008; 10(3):e24. PMCID: PMC2553246. PMID: 18701421.
57. **Schleyer T**, Thyvalikakath TP, Malatack P, Marotta M, Shah TA, Phanichphant P, Price G, Hong J. The feasibility of a three-dimensional charting interface for general dentistry. Journal of the American Dental Association. 2007 Aug; 138(8):1072-80. PMID: 17670873.
58. **Schleyer T**, Spallek H, Hernández P. A qualitative investigation of the content of dental paper-based and computer-based patient record formats. Journal of the American Medical Informatics Association. 2007 Jul; 14(4):515-26. PMCID: PMC2244908. PMID: 17460133.
59. Spallek H, Irwin JY, **Schleyer T**, Butler BS, Weiss PM. Supporting the emergence of dental informatics with an online community. International Journal of Computerized Dentistry. 2007 Jul; 10(3):247-64. PMCID: PMC2367256. PMID: 18271498.
60. Thyvalikakath TP, **Schleyer T**, Monaco V. Heuristic evaluation of clinical functions in four practice management systems: A pilot study. Journal of the American Dental Association. 2007 Feb; 138 (2):209-10, 212-8. PMID: 17272376.
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63. **Schleyer T**, Dodell D. Continuing dental education requirements for relicensure in the United States. Journal of the American Dental Association. 2005 Oct; 136(10):1450-6. PMID: 16255471.
64. **Schleyer T**, Teasley SD, Bhatnagar R. Comparative case study of two biomedical research collaboratories. Journal of Medical Internet Research. 2005 Oct; 7(5): e53. PMCID: PMC1408071. PMID: 16403717.
65. **Schleyer T**. Should dentistry be part of the National Health Information Infrastructure? Journal of the American Dental Association. 2004 Dec; 135(12):1687-95. PMID: 15646601.
66. **Schleyer T**. Why integration is key for dental office technology. Journal of the American Dental Association. 2004 Oct; 135:4S-9S. PMID: 15543814.
67. **Schleyer T**, Johnson LA. Evaluation of educational software. Journal of Dental Education. 2003 Nov; 67(11):1221-8. PMID: 14650503.
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**Grant awards (research and training)**

**Current**

|  |  |
| --- | --- |
| Funding Agency: | Regenstrief Institute |
| Grant Number: | n/a |
| Title of Grant: | Treatment disparities in Type 2 Diabetes: A novel application of organizational decision support |
| Principal Investigator: | Schleyer, Titus; Haggstrom, David |
| Role on Grant: | Co-PI |
| Years Inclusive: | 11/1/2022 - 10/31/2023 |
| Percent Effort: |  |
| Total Direct Costs: | $29,914 |
|  |  |
| Funding Agency: | National Library of Medicine |
| Grant Number: | 1T15LM012502 |
| Title of Grant: | The Indiana Training Program in Public & Population Health Informatics |
| Principal Investigator: | Schleyer, Titus; Dixon, Brian |
| Role on Grant: | Co-PI |
| Years Inclusive: | 7/1/2022 - 6/30/2027 |
| Percent Effort: | 15 |
| Total Direct Costs: | $2,619,669 |
|  |  |
| Funding Agency: | National Library of Medicine |
| Title of Grant: | COVID-19 disease course analysis using multi-site large-scale EHR data |
| Grant Number: | 1 R21 LM013678-01 |
| Principal Investigator: | Ning, Xia; Schleyer, Titus |
| Role on Grant: | Co-PI |
| Years Inclusive: | 4/1/2021 – 03/31/2023 |
| Percent Effort: |  |
| Total Direct Costs: | $229,308 |
|  |  |
| Funding Agency: | Agency for Healthcare Research and Quality |
| Title of Grant: | Improving healthcare processes and outcomes by directly integrating health information exchange data in the clinical workflow |
| Grant Number: | 1R01HS027185-01A1 |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | PI |
| Years Inclusive: | 7/1/2020 – 6/30/2024 |
| Percent Effort: | 20 |
| Total Direct Costs: | $755,660 |
|  |  |
| Funding Agency: | National Library of Medicine |
| Grant Number: | R01LM012605-03S1 |
| Title Grant: | Characterizing COVID-19 patients through a community health information exchange and EHR databases |
| Principal Investigator: | Schleyer, Titus; Ning, Xia |
| Role on Grant: | Co-PI |
| Years Inclusive: | 07/01/20 - 04/30/22 |
| Percent Effort: | 5 |
| Total Direct Costs: | $74,999 |
| Funding Agency: | National Institute of Mental Health |
| Grant Number: | 1UF1MH121949-01 |
| Title of Grant: | Patient-centered team-based primary care to treat opioid use disorder, depression, and other conditions: The MI-CARE\* study |
| Principal Investigator: | DeBar, Lynn; Bradley, Katherine |
| Role on Grant | Co-I |
| Years Inclusive: | 09/12/2019 – 05/31/2024 |
| Percent Effort: | 10 |
| Total Direct Costs: | $10,034,792 |
|  |  |
| Funding Agency: | Cook |
| Grant Number: | AIM102 |
| Title of Grant: | Chronic Wound Care Registry to Improve Outcomes |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | PI |
| Years Inclusive: | 04/01/2020 - 12/31/2023 |
| Percent Effort: | 1 |
| Total Direct Costs: | $149,981 |
|  |  |
| Funding Agency: | National Center for Advancing Translational Sciences |
| Grant Number: | 5UL1TR002529-02 |
| Title of Grant: | Clinical and Translational Science Award |
| Principal Investigator: | Shekhar, Anantha |
| Role on Grant: | Co-I |
| Years Inclusive: | 5/2018 - 4/2023 |
| Percent Effort: | 20 |
| Total Direct Costs: | $5,264,717 |
|  |  |
| Funding Agency: | IU Grand Challenge – Addictions |
| Title: | Advanced Analytics for IU’s Addictions Grand Challenge |
| Principal Investigator: | Schleyer, Titus; Börner, Katy |
| Role on Grant: | Co-PI |
| Years Inclusive: | 09/01/18 - 06/30/24 |
| Percent Effort: | 10 |
| Total Direct Costs: | $1,482,109 |
|  |  |
| Funding Agency: | National Library of Medicine |
| Grant Number: | R01LM012605 |
| Title of Grant: | Enhancing information retrieval in electronic health records through collaborative filtering |
| Principal Investigator: | Schleyer, Titus; Ning, Xia |
| Role on Grant: | Co-PI |
| Years Inclusive: | 06/01/18 - 04/30/22 |
| Percent Effort: | 30 |
| Total Direct Costs: | $2,030,567 |
| Funding Agency: | IU Health |
| Grant Number: | AIM002, Prop ID. 18-0425-3R |
| Title of Grant: | Development of the Indiana Learning Health Systems Initiative (ILHSI) |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | PI |
| Years Inclusive: | 03/01/18-02/28/22 |
| Percent Effort: | 20 |
| Total Direct Costs: | $299,987 |
|  |  |
| Funding Agency: | Lilly Endowment-IUSM |
| Grant Number: | 20091568000 |
| Title Grant: | The Physician Scientist Initiative (PSI) |
| Principal Investigator: | Hess, Jay |
| Role on Grant: | Faculty |
| Years Inclusive: | 05/01/13-12/31/21 |
| Percent Effort: | 25 |
| Total Direct Costs: | $1,875,000 |
| **Completed** |  |
| Funding Agency: | National Library of Medicine |
| Grant Number: | 1T15LM012502 |
| Title of Grant: | The Indiana Training Program in Public & Population Health Informatics |
| Principal Investigator: | Schleyer, Titus; Dixon, Brian |
| Role on Grant: | Co-PI |
| Years Inclusive: | 07/01/2017 - 06/30/2022 |
| Percent Effort: | 15 |
| Total Direct Costs: | $2,430,250 |
|  |  |
| Funding Agency: | Regenstrief Institute |
| Title of Grant: | Disease course analysis of COVID-19 inpatients using large-scale EHR data |
| Principal Investigator: | Schleyer, Titus; Ning, Xia |
| Role on Grant: | Co-PI |
| Years Inclusive: | 7/1/2020 - 12/31/2020 |
| Total Direct Costs: | $20,000 |
|  |  |
| Funding Agency: | Indiana Biosciences Research Institute |
| Grant Number: | KC068498-00002B |
| Title of Grant: | Computational phenotyping for Type 2 Diabetes |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | PI |
| Years Inclusive: | 89/1/2016 - 6/30/2020 |
| Percent Effort: | 5 |
| Total Direct Costs: | $76,435 |
| Funding Agency: | Hitachi Corporation |
| Grant Number: | - |
| Title of Grant: | Clinical Decision Support System (CDSS) to Optimize Disease Management |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | PI |
| Years Inclusive: | 6/28/2019 – 3/31/2020 |
| Percent Effort: | 5 |
| Total Direct Costs: | $183,500 |
|  |  |
| Funding Agency: | hc1.com |
| Title of Grant: | Business and strategy development |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | PI |
| Years Inclusive: | 5/1/2016 – 7/31/2019 |
| Percent Effort: | 5 |
| Total Direct Costs: | $150,000 |
|  |  |
| Funding Agency: | Methodist Health Foundation |
| Title of Grant: | FHIR Based Health Information Exchange |
| Principal Investigator: | Schaffer, Jason |
| Role on Grant: | Co-I |
| Years Inclusive: | 12/17/2017 – 12/31/2018 |
| Percent Effort: | 5 |
| Total Direct Costs: | $250,000 |
|  |  |
| Funding Agency: | National Institute of Drug Abuse |
| Grant number: | R43 |
| Title of Grant: | Combating the opioid epidemic with big data analytics and a live, nationwide dashboard |
| Principal Investigator: | Deximo, Christina; Schleyer, Titus |
| Role on Grant: | Co-PI |
| Years Inclusive: | 04/01/2018 – 3/31/2019 |
| Percent Effort: | 5 |
| Total Direct Costs: | $150,000 |
|  |  |
| Funding Agency: | NIDCR |
| Grant Number: | 5U19DE022516-03 |
| Title of Grant: | Leveraging electronic dental record data (EDR) for clinical research |
| Principal Investigator: | G. Gilbert/T. Thyvalikakath |
| Role on Grant: | Co-I |
| Years Inclusive: | 1/1/2015 - 6/30/2018 |
| Percent Effort: | 3 |
| Total Direct Costs: | $680,363 |
| Total Amount Awarded: | $1,162,835 |
|  |  |
| Funding Agency: | National Library of Medicine |
| Title of Grant: | Administrative supplement for T15 programs |
| Principal Investigator: | Schleyer, Titus; Dixon, Brian |
| Role on Grant: | Co-PI |
| Years Inclusive: | 9/01/2017 – 6/30/2018 |
| Percent Effort: | 10 |
| Total Direct Costs: | $100,000 |
|  |  |
| Funding Agency: | IU Office of the Vice Chancellor for Research |
| Title of Grant: | Commercializing enhanced information retrieval in electronic health records (EHR) |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | PI |
| Years Inclusive: | 01/01/17 - 06/30/18 |
| Percent Effort: | 5 |
| Total Direct Costs: | $35,000 |
|  |  |
| Funding Agency: | NIH |
| Grant Number: | NIH-NCATS UL1TR001108 |
| Title of Grant: | Clinical and Translational Science Award |
| Principal Investigator: | Shekhar, Anantha |
| Role on Grant: | Co-I |
| Years Inclusive: | 11/2013 - 4/2018 |
| Percent Effort: | 5 |
| Total Direct Costs: | $4,476,428 |
|  |  |
| Funding Agency: | Merck |
| Title of Grant: | Evaluating unmet need for dyslipidemia patients managed by statin therapy through a retrospective analysis of a US electronic medical records database |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | PI |
| Years Inclusive: | 9/1/2016 – 8/31/2017 |
| Percent Effort: | 15 |
| Total Direct Costs: | $250,000 |
|  |  |
| Funding Agency: | NIDCR |
| Grant Number: | R03 DE023358 |
| Title of Grant: | Analysis of restoration longevity in elderly patients using electronic dental records |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | PI |
| Years Inclusive: | 9/25/2013 - 8/31/2016 |
| Percent Effort: | 2.5 % |
| Total Amount Awarded: | $312,584 |
|  |  |
| Funding Agency: | Regenstrief Institute |
| Title of Grant: | Generalizing advanced text mining (ATM) for clinical chart review |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | PI |
| Years Inclusive: | 4/1/2016 - 7/31/2016 |
| Total Direct Costs: | $22,059 |
|  |  |
| Funding Agency: | Merck |
| Title of Grant: | Kroger consumer data pilot project |
| Principal Investigator: | J. Leventhal |
| Role on Grant: | Co-I |
| Years Inclusive: | 1/1/2016 - 6/30/2016 |
| Percent Effort: | donated |
| Total Amount Awarded: | $50,000 |
|  |  |
| Funding Agency: | Regenstrief Institute |
| Title of Grant: | Pilot study for ontology-based analysis of INPC data |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | PI |
| Years Inclusive: | 2013 - 2014 |
| Total Amount Awarded: | $25,000 |
|  |  |
| Funding Agency: | NLM/NIDCR |
| Title of Grant: | Dental Informatics Training Grant |
| Principal Investigator: | Crowley, Rebecca |
| Role on Grant: | Co-I |
| Years: | 2012 - 2017 |
| Total Direct Costs: | $600,000 |
|  |  |
| Funding Agency: | NCRR |
| Grant Number: | 3UL1RR024153 |
| Title of Grant: | Clinical and Translational Institute, Online Research Community |
| Principal Investigator: | Reis, Steve |
| Role on Grant: | Co-I |
| Years: | 2011 - 2016 |
| Total Direct Costs: | $607,005 |
|  |  |
| Funding Agency: | NIDCR |
| Grant Number: | R21 DE21178 |
| Title of Grant: | Data extraction using electronic dental records in dental practice-based research networks |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | PI |
| Years: | 2011 - 2013 |
| Total Direct Costs: | $275,000 |
|  |  |
| Funding Agency: | NIDCR |
| Grant Number: | R21 DE021494 |
| Title of Grant: | Implementing research findings and evidence-based interventions into real-world dental practice settings |
| Principal Investigator: | Spallek, Heiko |
| Role on Grant: | Co-I |
| Years: | 2011 - 2013 |
| Total Direct Costs: | $269,840 |
|  |  |
| Funding Agency: | NIDCR |
| Grant Number: | R21 DE019683 |
| Title of Grant: | A standard information model for general dental records |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | PI |
| Years: | 2010 - 2012 |
| Total Direct Costs: | $289,737 |
|  |  |
| Funding Agency: | NLM/NIDCR |
| Grant Number: | 5 T15 LM007059 |
| Title of Grant: | Dental Informatics Training Grant |
| Principal Investigator: | Crowley, Rebecca |
| Role on Grant: | Co-I |
| Years: | 2007 - 2012 |
| Total Direct Costs: | $466,077 |
|  |  |
| Funding Agency: | NIDCR |
| Grant Number: | 5 RC1 DE020295 |
| Title of Grant: | Computer-assisted guidance for tobacco dependence interventions in dental offices |
| Principal Investigator: | Rindal, Brad |
| Role on Grant: | Consultant |
| Years: | 2010 - 2012 |
| Total Direct Costs: | $20,000 |
|  |  |
| Funding Agency: | NCRR |
| Grant Number: | U24 RR029822 |
| Title of Grant: | Digital Vita Documents for VIVO |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | PI (multiple) |
| Years: | 2011 - 2011 |
| Total Amount Awarded: | $78,000 |
|  |  |
| Funding Agency: | NIH |
| Grant Number: | 3 T15 LM007059 |
| Title of Grant: | Curriculum supplement to Pittsburgh Biomedical Informatics Training Grant |
| Principal Investigator: | Crowley, Rebecca |
| Role on Grant: | Co-I |
| Years: | 2010 - 2011 |
| Total Direct Costs: | $200,000 |
|  |  |
| Funding Agency: | NIH |
| Grant Number: | 3 T15 LM007059 |
| Title of Grant: | Administrative supplement for T-15 restoration slots |
| Principal Investigator: | Crowley, Rebecca |
| Role on Grant: | Co-I |
| Years: | 2009 - 2011 |
| Total Direct Costs: | $983,451 |
|  |  |
| Funding Agency: | NCRR |
| Grant Number: | 1UL1RR024153 |
| Title of Grant: | Clinical and Translational Institute, Online Research Community |
| Principal Investigator: | Reis, Steve |
| Role on Grant: | Co-I |
| Years: | 2006 - 2011 |
| Total Direct Costs: | $593,778 |
|  |  |
| Funding Agency: | NIDCR |
| Grant Number: | R21 DE018548 |
| Title of Grant: | A controlled terminology for diagnoses and findings in general dentistry |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | PI |
| Years: | 2007 - 2010 |
| Total Direct Costs: | $215,372 |
|  |  |
| Funding Agency: | NIH Challenge Grant program (RC1) |
| Grant Number: | K12 HD049109 |
| Title of Grant: | NIH Roadmap Multidisciplinary Clinical Research Career Development Award Grant |
| Role on Grant: | Mentee: Thankam Thyvalikakath |
| Years: | 2005 - 2010 |
| Total Direct Costs: | $602,007 |
|  |  |
| Funding Agency: | NIDCR |
| Grant Number: | R21 DE018158 |
| Title of Grant: | Feasibility of a natural language processing-based dental charting application |
| Principal Investigator: | Chapman, Wendy |
| Role on Grant: | Co-I |
| Years: | 2007 - 2009 |
| Total Direct Costs: | $290,940 |
|  |  |
| Funding Agency: | NLM |
| Grant Number: | G08 LM008667 |
| Title of Grant: | Dental Informatics Online Community |
| Principal Investigator: | Spallek, Heiko |
| Role on Grant: | Co-I |
| Years: | 2006 - 2009 |
| Total Direct Costs: | $280,000 |
|  |  |
| Funding Agency: | NIDCR |
| Grant Number: | R21 DE017325 |
| Title of Grant: | Development of electronic dental records for translating research into practice |
| Principal Investigator: | Rindal, Brad |
| Role on Grant: | Consultant |
| Years: | 2007 - 2009 |
| Total Direct Costs: | $20,000 |
|  |  |
| Funding Agency: | NLM/NIDCR |
| Title of Grant: | Dental Informatics Training Grant |
| Principal Investigator: | Crowley, Rebecca |
| Role on Grant: | Co-I |
| Years: | 2002 - 2007 |
| Total Direct Costs: | $744,170 |
|  |  |
| Funding Agency: | NIDCR |
| Grant Number: | U54 DE014257 |
| Title of Grant: | NYU Oral Cancer Research for Adolescent and Adult Health Promotion Center |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | Co-I |
| Years: | 2001 - 2007 |
| Total Direct Costs: | $403,281 |
|  |  |
| Funding Agency: | University of Pittsburgh Advisory Council on Instructional Excellence |
| Title of Grant: | Interactive features for computing in dentistry |
| Years: | 2003 - 2004 |
| Total Direct Costs: | $14,138 |
|  |  |
| Funding Agency: | NIDCR/NLM |
| Grant Number: | R13 DE014611 |
| Title of Grant: | Conference: Dental informatics and dental research |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | PI |
| Years: | 2002 - 2004 |
| Total Direct Costs: | $35,000 |
|  |  |
| Funding Agency: | NLM/NIDCR |
| Grant Number: | LM-96-002 |
| Title of Grant: | Dental Informatics Training Grant |
| Role on Grant: | Co-I |
| Years: | 1997 - 2002 |
| Total Direct Costs: | $480,000 |
|  |  |
| Funding Agency: | Dentrix Dental Systems |
| Title of Grant: | Survey of dental students regarding computer technology in dentistry |
| Years: | 2000 |
| Total Direct Costs: | $1,500 |
|  |  |
| Funding Agency: | American Dental Education Association Council of Sections Project Pool |
| Title of Grant: | Educational computing in dentistry competition |
| Role on Grant: | PI (multiple) |
| Years: | 2000 - 2001 |
| Total Direct Costs: | $10,530 |
|  |  |
| Funding Agency: | Temple University, |
| Title of Grant: | Academic Equipment Fund |
| Years: | 1997, 2000 |
| Total Direct Costs: | $35,280 |
|  |  |
| Funding Agency: | Temple University |
| Title of Grant: | Digital Radiology, Distance Learning Pilot Project |
| Years: | 1997 |
| Total Direct Costs: | $7,000 |
|  |  |
| Funding Agency: | Procter & Gamble |
| Title of Grant: | Temple University School of Dentistry Online, in-kind support |
| Years: | 1996-1997 |
| Total Direct Costs: | $10,000 |
|  |  |
| Funding Agency: | Temple University |
| Title of Grant: | Distance Learning Pilot Project |
| Years: | 1996 |
| Total Direct Costs: | $10,000 |
|  |  |
| Funding Agency: | American Fund for Dental Health |
| Title of Grant: | Dental School Clinical Database Consortium Assistance Project |
| Role on Grant: | Co-I |
| Years: | 1991 - 1993 |
| Total Direct Costs: | $32,000 |
|  |  |
| Funding Agency: | Temple University |
| Title of Grant: | Computer and Technology Fee |
| Years: | 1992 -1993, 1996 - 1999 |
| Total Direct Costs: | $311,300 |
|  |  |
| Funding Agency: | Academic Enhancement Fund, Temple University |
| Title of Grant: | Multimedia CD ROM for Dental and Skeletal Development as Enhancement for Graduate and Undergraduate Instruction in Orofacial Growth and Development |
| Years: | 1992 |
| Total Direct Costs: | $35,000 |

**Patents**

|  |  |
| --- | --- |
| 11/15/2021 | Awarded - Patent application No. 17/526,591 Systems and methods for providing health care search recommendations |
| 11/12/2020 | Awarded - Patent Application No. 63/113,681 Hybrid collaborative filtering methods for clinical search recommendation |
| 1/4/2018 | IURTC-XXXX: Information integration between health information exchanges and electronic health records |
| 8/28/2017 | IURTC-2018-031-01-US: Electronic health record data to improve drug utility |
| 11/13/2017 | Patent Application No. PCT/US2017/061254 (based on US Patent Application No. 62/420,281 filed 11/10/2016): Person-centered health record architecture |
| 9/6/2017 | Patent Application No. PCT/US2017/050306 (based on US provisional No. 62/383,655 filed 9/6/2016): Systems and methods for accessing, combining and collaborative filtering of information from multiple electronic health records |

**Other scholarly activities**

**Editorial board(s)**

|  |  |
| --- | --- |
| 2010 - 2012 | Member, editorial board, Computers in Biology and Medicine |
| 2008 - 2010 | Member, editorial board, Journal of the American Dental Association |
| 2002 - 2013 | Coordinator, Software reviews, Journal of Dental Education |
| 2000 - 2002 | Guest editor, Dental Clinics of North America |
| 1999 - 2008 | Inaugural Associate Editor for Informatics and Technology, Journal of the American Dental Association |
| 1999 | Guest editor, Journal of the American College of Dentists |
| 1997 - 2000 | Member, Scientific Committee, Virtual Journal of Orthodontics |

**Manuscript review**

|  |  |
| --- | --- |
| 2021, 2022 | Reviewer, JAMIA Open |
| 2021 | Reviewer, Applied Clinical Informatics |
| 2020 | Reviewer, Nature |
| 2020 | Reviewer, Journal of General Internal Medicine |
| 2019 | Reviewer, Journal of the American Medical Informatics Association Open |
| 2015 | Reviewer, Applied Clinical Informatics |
| 2012 - 2013 | Reviewer, Journal of Public Health Dentistry |
| 2011 - 2013 | Reviewer, Journal of the American Dental Association |
| 2009 | Reviewer, Community Dentistry and Oral Epidemiology |
| 2008 - present | Reviewer, Journal of the American Medical Informatics Association |
| 2008 | Reviewer, Journal of Medical Systems |
| 2007 | Reviewer, BMC Medical Education |
| 2006 | Reviewer, Acta Biomaterialia |
| 2006 - present | Reviewer, International Journal of Medical Informatics |
| 2005 | Reviewer, BMC Medical Research Methodology |
| 2004 | Reviewer, Journal of Clinical Epidemiology |
| 2002 - 2008 | Reviewer, Journal of Medical Internet Research |
| 2002 | Reviewer, Journal of Dental Research |
| 2002 - 2005 | Reviewer, The Journal of Contemporary Dental Practice |
| 1999 - 2010 | Reviewer, Journal of Dental Education |
| 1999 - 2002 | Reviewer, Dentalcare.com |
| 1999 | Reviewer, Quintessence International |
| 1998 | Reviewer, Journal of Prosthodontics |

**Grant review**

|  |  |
| --- | --- |
| 2024 | Reviewer, Center for Scientific Review, Health Services and Systems Review Branch (2024/10 ZRG1 HSS-D (90)) |
| 2024 | Reviewer, National Library of Medicine Special Emphasis Panel (ZLM1 AS-C (01)) (alternate chair) |
| 2023 | Reviewer, Center for Scientific Review, Health Services and Systems Review Branch (2023/10 ZRG1 HSS-F (90) S) |
| 2022 | Reviewer, Center for Scientific Review, Organization and Delivery of Health Services Study Section |
| 2021 | Reviewer, NIH Director’s Early Independence Award Review (ZRG1 PSE-H (70) R) |
| 2020 | Reviewer, Wellcome Trust |
| 2020 | Reviewer, Center for Scientific Review, Biomedical Computing and Health Informatics Study Section |
| 2020 | Reviewer, Center for Scientific Review, Healthcare Delivery and Methodology Integrated Review Group (ZRG1 HDM-K (56)) |
| 2015, 2016, 2019 – 2021, 2023 | Reviewer, NCATS CTSA |
| 2018 - 2019 | Reviewer, National Library of Medicine Biomedical Informatics, Library and Data Sciences |
| 2017 | Reviewer, National Library of Medicine Special Emphasis Panel (ZLM1 ZH-C (01)) |
| 2016 | Indiana University Health Values Fund, Research Grants |
| 2014 | Reviewer, NIH BCHI |
| 2011 | Reviewer, National Institute of Dental and Craniofacial Research (ZRG1 MOSS-K(11))) |
| 2011 | Reviewer, National Center for Research Resources (ZRR1 CR-3 (01)) |
| 2010 | Reviewer, National Center for Research Resources (ZRR1 CR-1 (01)) |
| 2010 | Reviewer, National Institute of Dental and Craniofacial Research (ZDE1 MK 08) |
| 2009 | Mail reviewer, NIH Challenge Grant program (RC1) |
| 2008 | Reviewer, NIDCR Special Emphasis Panel, Musculoskeletal, Oral & Skin Sciences IRG |
| 2006 | Reviewer, Technology Enhanced Learning initiative, UK Economic and Social Research Council |
| 2003 - 2004 | Reviewer, NIDCR Special Emphasis Panel, Musculoskeletal, Oral & Skin Sciences IRG |
| 2000 | Reviewer, NIDCR RFP: Dental and Craniofacial Data Resource Center, National Heart, Lung, and Blood Institute |
| 1996 | Grant reviewer, Agency for Health Care Policy and Research |
| 1994 - 1995 | Grant reviewer, National Library of Medicine and Agency for Health Care Policy and Research |

**Conference planning & review**

|  |  |
| --- | --- |
| 2024 | Member, 2024 AMIA Annual Symposium Scientific Program Committee |
| 2023 | Co-organizer, AMIA Mini-Summit *Climate and health: How can informatics help?* 2023 AMIA Annual Symposium |
| 2020 – present | Organizer, AMIA/HL7 Fast Healthcare Interoperability Resources (FHIR) Applications Competition |
| 2019 | Co-Organizer, NLM Informatics Training Conference |
| 2019 | Reviewer, AMIA Clinical Informatics Conference |
| 2018 | Reviewer, AMIA Informatics Summit |
| 2018, 2019 | Organizer, AMIA/HL7 Inaugural Fast Healthcare Interoperability Resources (FHIR) Applications Showcase |
| 2016 | Lead Organizer, “Indiana’s Opportunities to Lead in Digital Health” |
| 2013 | Member, AMIA, Policy Invitational Planning Committee |
| 2012 - 2013 | Vice-chair, Applications Track, 2013 Annual Symposium, American Medical Informatics Association |
| 2012 - 2013 | Chair, 2013 Winter Symposium Program Committee, American College of Medical Informatics |
| 2011 | Member, Program Committee, 2012 ACM SIGHIT International Health Informatics Symposium |
| 2011 | Reviewer, AMIA Annual Symposium |
| 2007 - 2009 | Reviewer, AMIA Annual Symposium |
| 2005 | Reviewer, AMIA Annual Symposium |
| 2002 - 2003 | Director, conference “Dental Informatics and Dental Research: Making the Connection” |
| 2003 | Reviewer, AMIA Annual Symposium |
| 1996 | Reviewer, Posters, AADS Annual Session |

**Other review activities**

|  |  |
| --- | --- |
| 2018 | Judge, 2018 AMIA Pitch IT Competition |
| 2011 | Reviewer, IRB protocol pre-review, School of Dental Medicine |
| 2006 | Member, Macy Foundation Study: Curriculum Panel on Diagnosis and Primary Care |
| 2000 - 2002 | Chair, Consortium of National Coordinators, MedLive, Quintessence Publishing |
| 2002 | Judge, The 2002 Excellence in E-Learning Awards, Brandon-Hall and Online Learning Magazine |
| 2002 | Ad hoc reviewer, Contracts, National Library of Medicine |

**Invited presentations**

|  |  |  |
| --- | --- | --- |
|  |  | **Schleyer T**. One Health and data standards: Making the connection (Panel)? HL7 Global Passport Series. 2024 Apr 2 (online) |
|  |  | **Schleyer T**. Climate change and health: What data do we need (Panel)? AMIA Informatics Summit. 2024 Mar 19 |
|  |  | **Schleyer T**. Leveraging AI in the Indiana Learning Health System Initiative (ILHSI). Ohio State University AI in Digital Health Conference. 2021 Jun 09 (online) |
|  |  | **Schleyer T**. Icebergs, Amazon and Dr. Larry Weed: Helping solve the problem of information overload in healthcare. Mayo Clinic Clinical Informatics Grand Rounds. 2021 Apr 12 (online) |
|  |  | McKinley C, Parker M, **Schleyer T**, Crosley S. Research and big data (Panel). Presented at: Indianapolis Regional Healthcare Compliance Virtual Conference; 2020 Sept 25 (online)  **Schleyer T**. Advanced Analytics for Indiana University’s Addictions Grand Challenge, University of Pittsburgh Public Health Dynamics Lab Seminar Series. 2019 Jun 3 (online) |
|  |  | **Schleyer T**, Schaffer J, Ning X, Kelley K, Kochmann M, Finnell JT and the *FHIR-on-INPC Development Team*. SMART on FHIR: Integrating HIE Data into EMR Workflow (Part III). Scottsdale Institute Teleconference. 2019 May 8 (online) |
|  |  | **Schleyer T**. Vision for and early implementation of the Indiana Learning Health Systems Initiative (ILHSI). The Ohio State University. 2018 Aug 17. Columbus, OH |
|  |  | Kochmann M, Seitz D, **Schleyer T**, Schaffer J, Kelley K, Martin D, Ning X, Finnell JT and the FHIR-on-INPC Development Team. FHIR HIEdrant: Making big data actionable at the point of care. Medstartr Momentum. 2017 Nov 30 - Dec 1. New York, NY |
|  |  | Kochmann M, Seitz D, **Schleyer T**, Schaffer J, Kelley K, Martin D, Ning X, Finnell JT and the FHIR-on-INPC Development Team. FHIR HIEdrant: Making big data actionable at the point of care”, Healthcare Informatics Webinar, 2017 Nov 28 (online) |
|  |  | Kochmann M, Seitz D, **Schleyer T**, Schaffer J, Kelley K, Martin D, Ning X, Finnell JT and the FHIR-on-INPC Development Team. FHIR HIEdrant: Making big data actionable at the point of care, Xtelligent Media Values Based Care Summit, 2017 Nov 17, Boston, MA |
|  |  | Kochmann M, **Schleyer T**, Schaffer J, Kelley K, Martin D, Ning X, Finnell JT and the FHIR-on-INPC Development Team. You’ve got mail. Next generation of health information exchange, Healtcare IT Summit, 2017 Oct 20, Raleigh, NC. |
|  |  | **Schleyer T**, Combating the opioid epidemic with big data analytics and a live, nationwide dashboard, Modeling the opioid epidemic, University of Pittsburgh, 2017 Oct 2; Pittsburgh, PA. |
|  |  | **Schleyer T**. Building integrated clinical dashboards using FHIR, 2017 Health IT Summit, Cleveland, OH, 2017 Mar 23-24; Cleveland, OH. |
|  |  | **Schleyer T**, Martin D, Mamlin B. Leveraging FHIR to create a patient-centric electronic health record. Presented at: HL7 Partners in Interoperability; 2016 Oct 19; Baltimore, MD. |
|  |  | **Schleyer T**, Beyond health information exchange as we know it: From disease to health. Presented at: Indy Big Data Conference; 2016 Sep 1; Indianapolis, IN. |
|  |  | **Schleyer T**, Hui S. Discovering connections among 4 billion health data points, starting with two. Presented at: Spring 2015 Network Science Talks; 2015 Feb 2; Bloomington, IN. |
|  |  | **Schleyer T**. Informatics/big data uses challenges in the life sciences. Presented at: Kelly School of Business Life Sciences Seminar; 2014 May 9; Indianapolis, IN. |
|  |  | **Schleyer T**. Clinical informatics research at the Regenstrief Institute and beyond. Presented at: School of Informatics and Computing Colloquia Series; 2013 Nov 8; IUPUI. |
|  |  | **Schleyer T**. Changing the world of dentistry with dental informatics. Presented at: 2nd World Virtual Congress of Dental Students; 2012 May 9-11. |
|  |  | **Schleyer T**, Butler BS, Song M, Spallek H. Conceptualizing and advancing research networking systems. Presented at: ACM SIGCHI Conference on Human Factors in Computing Systems; 2012 May 5-10; Austin, TX. |
|  |  | **Schleyer T**, Butler BS, Song M, Spallek H. The dawn of research networking: A proposed research agenda. Presented at: Second Annual VIVO Conference; 2011 Aug 24-26; Washington, DC. |
|  |  | **Schleyer T**. Dental informatics: Time to join the revolution? Presented at: Student Research Group Grand Rounds; 2010 Oct 24; University of Pittsburgh, School of Dental Medicine. |
|  |  | **Schleyer T**. Improving information technology support for oral medicine: A proposed agenda. Presented at: European Association of Oral Medicine; 2010 Sep 23-25; London, UK. |
|  |  | Conlon M, **Schleyer T**, Smith M, Warden M, Weber GM. Research networking (Panel). Presented at: VIVO National Conference; 2010 Aug 12-13; New York Hall of Science, New York, NY. |
|  |  | **Schleyer T**. Digital Vita: Research networking in the context of CV management. Presented at: VIVO National Conference; 2010 Aug 12-13; New York Hall of Science, New York, NY. |
|  |  | **Schleyer T**. Engineering a revolution: A research agenda for dental informatics. Presented at: Scientific Seminar Series; 2010 Jul 21; Marshfield, WI. |
|  |  | **Schleyer T**. Improving oral health with informatics. Presented at: Annual Meeting of the American Association of Dental Consultants; 2010 May 5-8; San Diego, CA. |
|  |  | **Schleyer T**. Digital Vita: Facebook for Scientists. Presented at: School of Information Sciences Council Colloquium; 2010 Mar 19; University of Pittsburgh. |
|  |  | **Schleyer T**. Impact of biomedical informatics on dental education, practice and research. Presented at: 100th Anniversary, National Autonomous University of Mexico; 2008 Nov 19; Mexico City. |
|  |  | **Schleyer T**. Information technology in clinical practice: Opportunities and challenges. Presented at: ADA Board of Trustees meeting; 2005 Apr 17; Chicago, IL. |
|  |  | **Schleyer T**. Information technology in dental practice. Presented at: ADA Dental Economics Advisory Group Meeting; 2005 Mar 3; Chicago. |
|  |  | **Schleyer T**. Panel: Scientific careers in oral and craniofacial research. Presented at: Beyond your Bench, National Institute of Dental and Craniofacial Research; 2003 Jul 11. |
|  |  | **Schleyer T**. Applied informatics in dentistry. Presented at: Beyond your Bench, National Institute of Dental and Craniofacial Research; 2003 Jul 11. |
|  |  | **Schleyer T**. Challenges for dental informatics. Presented at: FDI Congress; 2002 Oct 3; Vienna, Austria. |
|  |  | **Schleyer T**. Dental informatics: Challenges for the Twenty-first Century. Presented at: Symposium on the Future of Dentistry; 2002 Sep 22; Boston University, Boston, MA. |
|  |  | **Schleyer T**, Freitas R. Nanotechnology in dentistry [German]. Presented at: 47. Zahnärztetag der Zahnärztekammer Westfalen-Lippe; 2001 Mar 17; Bad Salzuflen, Germany. |
|  |  | **Schleyer T**. Online continuing education --The path to the future [German]. Presented at: 47. Zahnärztetag der Zahnärztekammer Westfalen-Lippe; 2001 Mar 17; Bad Salzuflen, Germany. |
|  |  | **Schleyer T**. Concepts of quality in education -- Results of an online education programme analysis. Presented at: G8 Global Healthcare Applications Final Conference; 2000 May 5; Berlin, Germany. |
|  |  | **Schleyer T**. Dentistry and information technology. Presented at: ADA Board of Trustees Planning Meeting; 1999 Dec 6; Chicago, IL. |
|  |  | **Schleyer T**. The way ahead. Presented at: 2nd International Conference on Computers in Dental Education and Practice; 1999 Sep 6; London. |
|  |  | **Schleyer T**. Information technology in dentistry. Presented at: Board of Trustees of the American Dental Association; 1998 Dec 6; Chicago, IL. |
|  |  | **Schleyer T**, Johnson L. Standards for instructional software. How does multimedia change dental education? Presented at: KAVO GmbH; 1998 Oct 22; Lindau, Germany. |
|  |  | **Schleyer T**. Continuing education in cyberspace. Presented at: Section of Oral and Maxillofacial Surgery, AADS Annual Session; 1998 May; Minneapolis, MN. |
|  |  | **Schleyer T**. Dental informatics -- an emerging discipline. Presented at: Meeting of the Medical Libraries Association, American Medical Informatics Association Spring Congress; 1998 May. |
|  |  | **Schleyer T**. Development of a dental informatics curriculum. Presented at: International Conference on Computer Applications in Dental Practice and Education; 1996 Oct. |
|  |  | **Schleyer T**. Choosing computer systems for dental schools. Presented at: Canadian Dental Association Teaching Conference; 1995 Oct; Vancouver, BC. |
|  |  | **Schleyer T**. The digital revolution: Are we in control? Presented at: American College of Dentists Infotech Conference; 1995 Jul. |
|  |  | **Schleyer T**. The future of computers in dentistry. Presented at: Meeting of the AADS Section of Clinic Administrators; 1994 Oct. |

**Other presentations**

|  |  |  |
| --- | --- | --- |
|  |  | Riggins D, Inderstrodt J, Price J, Grannis SJ, **Schleyer T**, Crago J, O’Brien S, Dixon BE. Linking Maternal and Child Health Data to Enhance Public Health Surveillance in Indiana. Rapid-Fire presentation at the International Population Data Linkage Network Conference. 2024 Sep 15-18. Chicago, IL. |
|  |  | Rogerson C, Owora A, He T, Carroll A, **Schleyer T**, Abu-Sultaneh S, Tu W, Mendonca E. High flow nasal cannula and hospital length of stay for pediatric asthma, Society for Critical Care Medicine 2023 Annual Symposium. 2023 January 21-24. San Francisco, CA. |
|  |  | **Schleyer T**, Dexter P, Grout R, Park S, Tucker-Edmonds B, Cheng E, Hosler H, Deck M, Zappone S. Big data analysis of disparities in health care at IU Health: The 30,000’ view. HEAL-R Work-in-Progress. 2022 Dec 16. Indianapolis, IN. |
|  |  | Umberfield EE, Stewart KD, Hill JR, **Schleyer T**. Exploring emergency medicine physicians’ information retrieval practices. Podium Presentation at the American Medical Informatics Association Annual Symposium. 2022 November 8. Washington, DC. |
|  |  | Welch L, Daudelin D, Gatto C, Paranal R, **Schleyer T**. Collaborating to grow learning health systems: Developing a framework for identifying benefits. ACTS Evaluation Special Interest Group. 2021 Dec 15; online. |
|  |  | **Schleyer T**. Four foundational elements of academia. Regenstrief Institute Peer Learning Series. 2022 Jan 25; Indianapolis, IN. |
|  |  | **Schleyer T.** How do we solve the problem of information overload for clinicians? INPC Management Committee Meeting. 2021 Feb 23; Indianapolis, IN. |
|  |  | **Schleyer T**, Ruppert L, Rivera R. Health Dart. Health Services Research Work-in-Progress, Regenstrief Institute. 2020 Dec 4; Indianapolis, IN. |
|  |  | **Schleyer T**, Hightower M, Harle CA, Landman A, Rudin RS, Healthcare delivery systems, EHRs, and the future of an app-based ecosystem: Old wine in new bottles? AMIA 2020 Annual Symposium. 2020 Nov 14-18. (online). |
|  |  | **Schleyer T**, Advanced Analytics for IU’s Addiction Grand Challenge (A2AGC):  Responding to the opioid addiction crisis. Health Services Research Work-in-Progress, Regenstrief Institute. 2020 Feb 7; Indianapolis, IN. |
|  |  | **Schleyer T**.Opportunities in the pharmacy and pharmacology space within the Indiana Learning Health System Initiative (ILHSI). Center for Computational Biology and Bioinformatics.2019 Sept 16. Indianapolis, IN. |
|  |  | **Schleyer T**, Helping clinicians cope with information overload. Regenstrief Institute Startup Exploration (RISE) Session. 2019 July 10. Indianapolis, IN |
|  |  | **Schleyer T**, Williams L. The IUH Learning Health Systems Initiative: Current status and opportunity for involvement. Health Services Research Work-in-Progress, Regenstrief Institute. 2019 Apr 5. Indianapolis, IN |
|  |  | Rivera RL, **Schleyer T**. Food matters for health: Does healthcare care? Regenstrief Institute Work-in-Progress. 2019 May 22. Indianapolis, IN |
|  |  | **Schleyer T**, Williams L. Progress towards the Indiana Learning Health System Initiative (ILHSI). Regenstrief Institute Work-in-Progress. 2018 Dec 12. Indianapolis, IN |
|  |  | Mathews M, Collins K, Thomas PB, Qi R, Pradhan MP, König H, Huschto T, Petrich W, **Schleyer T**, McAhren S, and Robertson DH. Understanding Type 2 Diabetes Patient Sub-Groups through Electronic Medical Records. 2018 Indiana Life Sciences Summit. 2018 Oct 9. Indianapolis, IN |
|  |  | Mathews M, Collins K, Thomas PB, Qi R, Pradhan MP, König H, Huschto T, Petrich W, **Schleyer T**, McAhren S, Robertson DH. Understanding Type 2 Diabetes Patient Sub-Groups through Electronic Medical Records*.* Lilly’s All-Research Grand Rounds Meeting. 2018 Aug 29. Indianapolis, IN |
|  |  | Duncan WD, Thyvalikakath TP, Siddiqui Z, LaPradd M, Wen C, Roberts A, Hood D, **Schleyer T**, Manimangalam A, Rindal DB, Jurkovich MW, Shea TL, Bogacz D, Yu T, Fellows JL, Gordan VV, Gilbert GH and the National Dental PBRN Collaborative Group. Using the *Oral Health and Disease Ontology* to study dental outcomes in National Dental PBRN practices. 2018 International Conference on Biological Ontology. 2018 August 7-10. Corvallis, OR. |
|  |  | Nguyen KA, Li L, Yazdanparast A, Wang L, Kreutz RP, Whipple EC, **Schleyer T**. Statin-induced myopathy: A comprehensive assessment of risk factors. American Association of Colleges of Pharmacy. Boston, MA. July 2018 |
|  |  | Kochmann M, Rahurkar S, Schaffer J, Kelley K, *FHIR Development Team*, **Schleyer T**. One-click Integration of Information from the Indiana Network for Patient Care with Cerner, Indiana School of Medicine 3rd Annual Patient Safety and Quality Day. Indianapolis, Indiana. 2018 April 6 |
|  |  | **Schleyer T**, Bueker A, Wolfgang J. hc1 Opioid Dashboard, Analysis and Visualization of Addiction Data, Phase 2 of IU’s Addictions Grand Challenge  2018 Feb 26, Bloomington, IN |
|  |  | **Schleyer T**, Schaffer J, Kelley K, Martin D, Ning X, Kochmann M, Finnell JT and the FHIR-on-INPC Development Team, Enabling interoperability between EHRs and health information exchanges using the Fast Healthcare Interoperability Resources (FHIR) standard. ACMI Winter Symposium 2018. 2018 Feb 4. Scottsdale, AZ (accepted). |
|  |  | Rahurkar S, **Schleyer T**, Schaffer J, Kelley K, Kochmann M and the *FHIR-on-INPC Development Team*, Fast Healthcare Interoperability Resources (FHIR) on the INPC: A new platform for applied research, Presented at: Regenstrief Work in Progress. 2018 Jan 10. Indianapolis, IN. |
|  |  | **Schleyer T**, Hui S, Wang J, Zhang Z, Knapp K, Baker J, Chase M, Boggs R, Simpson R, Evaluating unmet treatment need for dyslipidemia patients managed by lipid-modifying therapy using the Indiana Network for Patient Care (INPC). Presented at: Regenstrief Work in Progress. 2017 Dec 20. Indianapolis, IN. |
|  |  | **Schleyer T**, Schaffer J, Kelley K, Martin D, Ning X, Kochmann M, Finnell JT and the FHIR-on-INPC Development Team, FHIR HIEdrant: Making big data actionable at the point of care. HL7 FHIR Applications Roundtable. 2017 Dec 6- and 7. New Orleans, LA. |
|  |  | Kochmann M, **Schleyer T**, Schaffer J, Kelley K, Martin D, Ning X, Finnell JT and the *FHIR-on-INPC Development Team*, FHIR HIEdrant, Presented at: Regenstrief Work in Progress. 2017 Nov 1. Indianapolis, IN. |
|  |  | **Schleyer T**, Kochmann M, Martin D, Schaffer J, Finnell JT, Ning X, Seitz D. Unlocking data in the Indiana Network for Patient Care through FHIR (Fast Healthcare Interoperability Resources). Work-in-Progress presentation. VA Health Services Research and Development. 2017 Sept 29. Indianapolis, IN. |
|  |  | McAhren S, **Schleyer T**, Robertson D, Petrich W, Pradhan MP, Mathews M, Bilo Thomas P, Huschto T. Uncovering the multiple paths of Type 2 Diabetes disease progression from electronic health records. Indy Big Data Conference 2017. 2017 Sept 14. Indianapolis, IN. |
|  |  | **Schleyer T**, Ning X, Martin D. Leveraging search patterns in electronic health records to make information retrieval more efficient. AMIA iHealth 2017 Conference. 2017 May 3; Philadelphia, PA. |
|  |  | Dixon, BE, Harle CA, Vest JR, Grannis SJ, **Schleyer T**, The Indiana Training Program in Public and Population Health Informatics. AMIA Inspire Conference. 2017 Jun 6-8 |
|  |  | **Schleyer T**, When will computers finally work in healthcare? Dartmouth College Geisel School of Medicine, 2017 Apr 27 |
|  |  | **Schleyer T**, Grannis S. Futures of health IT: Vignettes from the Regenstrief Institute. Employers’ Forum of Indiana. 2017 Mar 16. Indiana, IN |
|  |  | **Schleyer T**. Data Analytics to combat opioid/prescription drug (ab)use. Presented at: Regenstrief Work in Progress. 2017 Mar 15. Indianapolis, IN. |
|  |  | **Schleyer T**. Building a bridge across the Valley of Death in informatics. ACMI 2017 Winter Symposium. 2017 Feb 3. Duck Key, FL |
|  |  | **Schleyer T**, Bostic B, Langelier M, Walsh T. Indiana’s opportunities to lead in digital health (series of 3 workshops). 2016 Jan-Mar. Indianapolis, IN. |
|  |  | **Schleyer T**, Labkoff S, Grundmeier R, Crocker V, Cai J, McCallie D. Precision medicine: Whose job is it anyway? Presented at: AMIA 2015 Annual Symposium. 2015 Nov 15-18. San Francisco, CA. |
|  |  | **Schleyer T**, Grannis S. The Regenstrief Center for Biomedical Informatics: Better health through informatics. Presented at: AMIA 2015 Annual Symposium. 2015 Nov 15-18. San Francisco, CA. |
|  |  | **Schleyer T**, Grannis S. The Regenstrief Center for Biomedical Informatics. Presented at: CBMI Open House. 2015 May 8. Regenstrief Institute. Indianapolis, IN. |
|  |  | Harris L, **Schleyer T**, Chand P, Dexter P, Takesue B, Duke J, Leventhal J, Dixon B, Morea J, Beesley C, Wen C, Stroup J, Byrket A, Warvel J, Meeks-Johnson J, Colvard C. A distributed approach to decision support rule authoring. Presented at: 2015 HIMSS Annual Conference & Exhibition. 2015 Apr 12-16. Chicago, IL. |
|  |  | **Schleyer T**. Data breaches in medicine: The Anthem case. Presented at: WFYI Sound Medicine; 2015 Feb 11; Indianapolis, IN. |
|  |  | **Schleyer T**, Thyvalikakath TP. An online course in applied clinical informatics: Development and delivery. Presented at: Regenstrief Work in Progress; 2015 Jan 28; Indianapolis, IN. |
|  |  | **Schleyer T**. User-centered design: Theory and practice. Presented at: Regenstrief Work in Progress; 2013 Nov 6; Indianapolis, IN. |
|  |  | **Schleyer T**. A brief update on the Center for Biomedical Informatics. Presented at: Regenstrief HSR Work in Progress; 2013 Nov 1; Indianapolis, IN. |
|  |  | **Schleyer T**. A brief history of time in dental informatics. Presented at: Regenstrief Work in Progress; 2013 Jun 12; Indianapolis, IN. |
|  |  | Song M, **Schleyer T**, Rindal D, Fellows J, Gordan V, Gilbert G, DPBRN Collaborative Group T. Electronic dental record use in the Dental Practice-based Research Network. Presented at: Annual meeting of the American Association for Dental Research; 2012 Mar 21-24; Tampa, FL. |
|  |  | Griffin W, Barnett W, Conlon M, Eichmann D, Kibbe W, Falk-Krzesinski H, Halaas M, Johnson L, Meeks E, Mitchell D, **Schleyer T**, Stallings S, Warden M, Kahlon M, Members of the DIRECT Collaboration. Distributed Interoperable Research Experts Collaboration Tool (DIRECT). Presented at: AMIA 2011 Annual Symposium; 2011 Oct 22-26; Washington, DC. |
|  |  | Shirey WE, Shen S, Mitchell S, Lowe B, Corson-Rikert J, Schmandt LM, **Schleyer T**. DV Docs: Generating CVs and NIH biosketches from VIVO data. Poster presented at: CTSA Informatics Key Function Committee All-Hands Meeting; 2011 Oct 12-13; Bethesda, MD. |
|  |  | Borromeo C, **Schleyer T**, Becich MJ, Hochheiser H. Finding collaborators: Towards interactive tools for research social networks. Poster presented at: CTSA Informatics Key Function Committee All-Hands Meeting; 2011 Oct 12-13; Bethesda, MD. |
|  |  | Weber G, Barnett W, Conlon M, Eichmann D, Kibbe W, Falk-Krzesinski H, Halaas M, Johnson L, Meeks E, Mitchell D, **Schleyer T**, Stallings S, Warden M, Kahlon M, Members of the Clinical and Translational Science Award (CTSA) Research Networking Group. Direct2Experts - Connecting VIVO and other research networking products. Presented at: Second Annual VIVO National Conference; 2011 Aug 24-26; Washington, DC. |
|  |  | **Schleyer T**, Mitchell S, Shen S, Shirey WE, Corson-Rikert J, Lowe B, Becich MJ, Schmandt LM. (Trans)planting Digital Vita: Document generation for VIVO. Presented at: Second Annual VIVO Conference; 2011 Aug 24-26; Washington, DC. |
|  |  | Borromeo C, **Schleyer T**, Becich MJ, Hochheiser H. Finding collaborators: Towards interactive tools for research social networks. Poster presented at: Second Annual VIVO Conference; 2011 Aug 24-26; Washington, DC. |
|  |  | Mowery D, **Schleyer T**, Harkema H, Chapman WW. Discourse in Dictated Dental Exams. Poster presented at: NIDCR Trainee Meeting; 2011 Mar 16; San Diego, CA. |
|  |  | **Schleyer T**, Spallek H, Butler BS, Song M, Dziabiak M, Shirey WE, Milnes J. Digital Vita: A qualitative evaluation. Presented at: AMIA Summit on Clinical Research Informatics (CRI); 2011 Mar 9-11; San Francisco, CA. |
|  |  | Torres-Urquidy H, **Schleyer T**. Use of Context and Synonymy to Improve Terminology Development. Poster presented at: AMIA 2010 Annual Symposium; 2010 Nov 13-17; Washington, DC. |
|  |  | **Schleyer T**, Spallek H, Song M, Butler BS, Dziabiak M, Shirey WE, Milnes J. CV management in Digital Vita: A formative evaluation. Presented at: CTSA 2010 Informatics Key Function Committee All-Hands Meeting; 2010 Oct 13-15; Bethesda, MD. |
|  |  | **Schleyer T**, Shirey W, Borromeo C. Initial comparison of data models in Digital Vita and VIVO. Poster presented at: VIVO National Conference; 2010 Aug 12-13; New York Hall of Science, New York, NY. |
|  |  | **Schleyer T**. Improving oral health with informatics. Presented at: 10th Annual Spring Research Symposium; 2010 May 12; University of Pittsburgh, School of Dental Medicine. |
|  |  | Butler BS, **Schleyer T**, Spallek H, Schmandt LM. Digital Vita: Designing a social infrastructure for team science. Presented at: Science of Team Science; 2010 Apr 22-24; Chicago, IL. |
|  |  | Spallek H, Irwin J, **Schleyer T**. The Dental Informatics Online Community. Poster presented at: AADR 39th Annual Meeting & Exhibition; 2010 Mar 3-6; Washington, DC. |
|  |  | Mowery D, **Schleyer T**, Chapman WW. Distinguishing existing findings from planned treatments in dictated dental exams. Poster presented at: AADR 39th Annual Meeting & Exhibition; 2010 Mar 3-6; Washington, DC. |
|  |  | Irwin J, Christensen L, Harkema H, **Schleyer T**, Spallek H, Haug P, Chapman BE, Chapman WW. A speech-to-chart prototype for automatically charting hard tissue exams. Poster presented at: AADR 39th Annual Meeting & Exhibition; 2010 Mar 3-6; Washington, DC. |
|  |  | Acharya A, Thyvalikakath T, **Schleyer T**. Feasibility of Delphi Methodology to validate dental information items list. Poster presented at: AADR Annual Meeting. 2010 Mar 3-6; Washington, DC. |
|  |  | **Schleyer T**, Spallek H, Butler B, Schmandt LM. Digital Vita: Facebook for scientists. Poster presented at: 2009 CTSA Informatics Key Function Committee All-Hands Meeting; 2009 Oct 28-29; Bethesda, MD. |
|  |  | Detlefsen EG, **Schleyer T**, Spallek H, Butler BS. . “The Lunch With A Scientist Project: An Information Behavior Study in an Academic Health Sciences Center.”. Poster presented at: iConference 2009; 2009 Feb; Chapel Hill NC. |
|  |  | Thyvalikakath T, Hashemi S, Kase J, Weber J, Williams E, **Schleyer T**. Design of electronic dental record based on clinicians’ cognitive processes. Poster presented at: 87th IADR/ AADR General Session; 2009; Miami, FL. |
|  |  | **Schleyer T**, Spallek H, Butler BS, Subramanian S, Weiss D, Poythress M, Rattanathikun P, Mueller GM. Requirements for systems that optimize how biomedical scientists choose collaborators. Poster presented at: NCI/NCRI Joint Conference “Biomedical informatics without borders: Enabling collaboration to strengthen research and care”; 2008 Sep 2-23; Bethesda, MD. |
|  |  | Thyvalikakath TP, Torres-Urquidy HM, Dziabiak M, **Schleyer T**. Cognitive task analysis of clinicians’ decision making activities during diagnosis and treatment planning. Poster presented at: ADEA Annual Session; 2008 Mar; Dallas, TX. |
|  |  | **Schleyer T**, Spallek H, Butler BS, Kelleher C, Johnson S. Online communities for translational research. Poster presented at: Proceedings of the AMIA Spring Congress; 2007; Orlando, FL. |
|  |  | Spallek H, **Schleyer T**. Dental Informatics at the University of Pittsburgh. Presented at: Guy’s Hospital Dental School; 2005 Sep 14; London, UK. |
|  |  | **Schleyer T**, Zimmerman J, Suzewits J, Little D, Charters K. Survival of the fittest: Information technology as a subject in health professional curricula. Presented at: Workshop, Annual Symposium, American Medical Informatics Association; 2003 Nov 9. |
|  |  | **Schleyer T**, Zimmerman J, Bartling J. Research and informatics: What are the challenges? Presented at: Symposium, 32nd Annual Meeting & Exhibition of the AADR; 2003 Mar 14; San Antonio, TX. |
|  |  | **Schleyer T**, Bartling W. Datamining MEDLINE for topics and trends in dental and craniofacial research. Presented at: Symposium, 32nd Annual Meeting & Exhibition of the AADR; 2003 Mar 14; San Antonio, TX. |
|  |  | **Schleyer T**. Dental informatics: What is in it for me? Presented at: Faculty development lecture; 2003 Feb 26; University of Pittsburgh School of Dental Medicine. |
|  |  | **Schleyer T**. Computing in dentistry. Presented at: Homecoming weekend; 2002 Oct 26; University of Pittsburgh School of Dental Medicine. |
|  |  | **Schleyer T**. Dental informatics: An overview. Presented at: ASDA Grand Rounds; 2002 Sep 18; University of Pittsburgh School of Dental Medicine. |
|  |  | **Schleyer T**. Designing measurement studies. Presented at: TechFair, ADEA Annual Session; 2001 Mar 6; Chicago, IL. |
|  |  | Johnson L, **Schleyer T**. Encouraging high-quality electronic scholarship through peer review. Presented at: TechFair, ADEA Annual Session; 2001 Mar 6; Chicago, IL. |
|  |  | **Schleyer T**, Torres H. Validation of an instrument to measure students’ use of, knowledge about, and attitudes towards computers. Poster presented at: ADEA Annual Session; 2001 Mar 3-7; Chicago, IL. |
|  |  | **Schleyer T**, Spallek H. Supporting computer users in a dental school. Poster presented at: AADS Annual Session; 2000 Apr 1-5; Washington, DC. |
|  |  | Spallek H, **Schleyer T**, Farren S. Evaluation of an intranet. Poster presented at: AADS Annual Session; 1999 Mar 6-10; Vancouver, BC. |
|  |  | **Schleyer T**, Wong P. Competencies for dental informatics. Poster presented at: AADS Annual Session; 1999 Mar 6-10; Vancouver, BC. |
|  |  | **Schleyer T**, Johnson L, Pham T. Online continuing education in dentistry. Poster presented at: AADS Annual Session; 1999 Mar 6-10; Vancouver, BC. |
|  |  | **Schleyer T**. Online continuing education in dentistry. Presented at: SIPP/IOA Project Consortium Meeting; 1998 Oct; Paris, France. |
|  |  | **Schleyer T**, Torres H, Spallek H. Internet use in dentistry. Presented at: Toward Electronic Patient Records, Medical Records Institute; 1998 Mar; Nashville, TN. |
|  |  | **Schleyer T**. Computer-based patient records and the Internet. Presented at: Section of Orthodontics, AADS Annual Session; 1998 Mar; Minneapolis, MN. |
|  |  | **Schleyer T**. A Web-based clinical information system. Presented at: Section of Dental Informatics, AADS Annual Session; 1998 Mar; Minneapolis, MN. |
|  |  | Spallek H, **Schleyer T**, Kwok M. Implementation of an intranet. Poster presented at: Computers in Health Care Education; 1997 Apr; Philadelphia, PA. |
|  |  | Spallek H, **Schleyer T**, Kwok M. Implementation of an intranet. Poster presented at: Computers in Health Care Education Symposium; 1997 Apr; Philadelphia, PA. |
|  |  | **Schleyer T**, Spallek H. Implementation of a World Wide Web-based continuing education program. Presented at: Computers in Health Care Education Symposium; 1997 Apr; Philadelphia, PA. |
|  |  | **Schleyer T**. Implementing a dental informatics curriculum. Presented at: AADS Annual Session; 1997 Mar; Orlando, FL. |
|  |  | **Schleyer T**. Developing Web-based clinical information systems. Presented at: Symposium of the AADS Consortium for Clinical Information Systems, AADS Annual Session; 1997 Mar; Orlando, FL. |
|  |  | **Schleyer T**. The status of computer-based oral health records. Presented at: Toward Electronic Patient Records; 1996 May 13-18; Sheraton San Diego Hotel. |
|  |  | **Schleyer T**. Analyzing clinic utilization. Presented at: Symposium of the AADS Consortium for Clinical Information Systems, AADS Annual Session; 1996 May. |
|  |  | **Schleyer T**, Spallek H. Implementation of a course on the World Wide Web. Poster presented at: AADS Annual Session; 1996 Mar. |
|  |  | **Schleyer T**. A comprehensive image management system for dentistry. Poster presented at: Computers in Health Care Education Symposium; 1995 Apr. |
|  |  | **Schleyer T**. Integrating clinical information systems at the point of care. Presented at: Symposium of the AADS Consortium for Clinical Information Systems, AADS Annual Session; 1995 Mar. |
|  |  | **Schleyer T**. Strategies for system implementation. Presented at: Symposium of the AADS Consortium for Clinical Information Systems, AADS Annual Session; 1995 Mar. |
|  |  | **Schleyer T**. Toward a computer based oral health record. Presented at: Toward Electronic Patient Records; 1995 Mar; Medical Records Institute. |
|  |  | **Schleyer T**. Market opportunities for computer based oral health records. Presented at: Workshop of the Dental Manufacturer’s Association; 1995 Feb; Chicago Midwinter Meeting. |
|  |  | **Schleyer T**. Standards in dentistry. Presented at: Meeting of Subcommittee E31.12, American Society for Testing and Materials; 1994 Nov. |
|  |  | **Schleyer T**. Standards: Riding the wave to the computer based oral health record. Presented at: Annual Meeting of the AADS Consortium for Clinical Information Systems; 1994 Oct. |
|  |  | **Schleyer T**. Development of an academic computing plan. Poster presented at: AADS Annual Session; 1994 Mar. |
|  |  | **Schleyer T**. Dental informatics courses at Temple University School of Dentistry. Presented at: AADS Information Technology Committee, AADS Annual Session; 1994 Mar. |
|  |  | **Schleyer T**. Software architecture of the Clinical Management System. Presented at: Meeting of the AADS Consortium for Clinical Information Systems, International Conference on Computers in Clinical Dentistry; 1993 Sep. |
|  |  | **Schleyer T**. Clinic information systems: The potential for collaboration. Presented at: Meeting of the AADS Consortium for Clinical Information Systems, International Conference on Computers in Clinical Dentistry; 1993 Sep. |
|  |  | **Schleyer T**. Designing clinical information systems for the computer based oral health record. Presented at: Symposium, AADS/IADR Annual Session; 1993 Mar. |
|  |  | **Schleyer T**. Developing cross-platform GUI-based applications with Open Interface 2.0. Presented at: Computers in Health Care Education Symposium; 1993 Mar. |
|  |  | **Schleyer T**. System development life cycle. Presented at: AADS Information Technology Committee, AADS Annual Session; 1990 Nov. |

**Teaching**

**Undergraduate courses**

|  |  |  |
| --- | --- | --- |
| 2004 | Health Information Management in the Non-Traditional Setting | Faculty |

**Graduate courses**

|  |  |  |
| --- | --- | --- |
| 2021 | Administration and Management of Physical Therapy Services (Indiana University Doctor of Physical Therapy Program); “Data, the lifeblood of health” | Guest lecturer |
| 2021 | AHRQ LHS K12 Lecture Series (Regenstrief Institute); “Implementing the IU Health Learning Health System: Progress to date” [online] | Guest lecturer |
| 2020 | ASPIRE program (IU School of Medicine); “Pros and cons of using electronic medical records for research” [online] | Guest lecturer |
| 2020, 2023 | Introduction to health information technology in dentistry (IU School of Dentistry); “Teaching contextual inquiry” | Guest lecturer |
| 2020 | AHRQ LHS K12 Lecture Series (Regenstrief Institute); “The Indiana Learning Health Systems Initiative (ILHSI): LHS for a healthcare market” [online] | Guest lecturer |
| 2019 | Informatics Scholarly Concentration (IU School of Medicine); “Helping improve clinical and public health decisions with informatics” [online] | Guest lecturer |
| 2018 | CS 493 Computer Science (University of Illinois at Chicago); guest lecture “CareView: What if your doctor knew everything about you?” [online] | Guest lecturer |
| 2017 | Patient Safety and Informatics (Purdue University); “Fast Healthcare Interoperability Resources” with M. Kochmann | Guest lecturer |
| 2017 | Introduction to health information technology in dentistry (26339) | Faculty |
| 2016 | Biomedical Informatics Journal Club | Facilitator |
| 2015 | Introduction to health information technology in dentistry | Faculty |
| 2015 | Seminar in Health Informatics I | Faculty |
| 2011 - 2013 | Introduction to Health Information Technology in Dentistry | Course director |
| 2007 - 2013 | Biomedical Informatics Journal Club | Faculty |
| 2004, 2005, 2007 - 2013 | Introduction to Biomedical Informatics | Faculty |
| 2004 - 2013 | Dental Informatics MS Thesis | Course director |
| 2003 - 2005, 2008, 2010 - 2013 | Dental Informatics Seminar | Course director |
| 2002, 2004 - 2013 | Introduction to Dental Informatics Research | Course director |
| 2002, 2004, 2007, 2009 | Dental Information Systems | Course director |
| 2002 | Oral and Maxillofacial Radiology | Faculty |
| 1999 - 2000 | Dental Informatics Seminar | Course director |
| 1999 - 2000 | Management of Information Infrastructures | Course director |
| 1999 - 2000 | Dental Informatics Research | Course director |

**Predoctoral courses**

|  |  |  |
| --- | --- | --- |
| 2010 - 2013 | Health Promotion and Disease Prevention 2 | Faculty |
| 2010 - 2013 | Current Topics in Oral Health | guest faculty |
| 2002 - 2013 | Introduction to Computing | Faculty |
| 2002 - 2008, 2010 - 2012 | Comprehensive Care Clinic | Faculty |
| 2006 - 2010 | Senior Case Presentation | Faculty |
| 2006 - 2009 | Basic Science of Care (School of Medicine) | Faculty |
| 2005, 2006 | Biodontics | Faculty |
| 2002 - 2005 | Professionalism and Social Issues in Dentistry | Faculty |
| 1997 - 2001 | Fixed Prosthodontics Clinic | Faculty |
| 1994 - 1997, 1999, 2001 | Dental Informatics | Course director |
| 1998 - 2000 | Introduction to Computing | Faculty |
| 1995 - 1997 | Introduction to Computing | Course director |
| 1995 | Pediatric Dentistry Preclinical Lab | Faculty |
| 1994 - 1996 | Comprehensive Treatment Planning Clinic | Faculty |
| 1990 - 1992 | Computers in Dentistry | Co-director |
| 1990 - 1992 | Operative Dentistry Lab |  |
| 1989 - 1990, 1996 | Operative Dentistry Clinic | Faculty |

**Mentoring and advising**

**Undergraduate/predoctoral students**

|  |  |  |
| --- | --- | --- |
| 2023 | Bethvour Chike  Datawiz Program | Mentor |
| 2022 | Hannah Komanapalli | Mentor |
| 2021-current | Teryn Morgan  IUPUI Life-Health Sciences Intern | Mentor |
| 2021-current | Katy Stewart  IUPUI Life-Health Sciences Intern  IUPUI Top 100 award (2023) | Mentor |
| 2021-2022 | Medha Vijay Kulkarni  IUPUI Life-Health Sciences Intern | Mentor |
| 2021 | Kasyap Kondury  IMPRS Scholar | Mentor |
| 2020 | Brandon Gregory  Search functions in EHRs | Mentor |
| 2020 | Valeria DeLira  IMO-Regenstrief Problem List | Mentor |
| 2019 | Julia Otteson  IMO-Regenstrief Problem List | Mentor |
| 2019, 2020 | Alexandria Juarez  IMO-Regenstrief Problem List | Mentor |
| 2018 | Allissia Baublet  CareView evaluation paper | Mentor |
| 2017 | Akeem Williams  Development of a prototype SMART-on-FHIR app for managing chest pain patients | Mentor |
| 2012 - 2013 | Aaron Lazuka  Clinical data extraction from Dentrix | Mentor |
| 2011 | William Hart  Mapping research to clinical data in dentistry | Mentor |
| 2010 | Gloria Spataro  Digital Vita system documentation maintenance | Project advisor |
| 2010 | Diane Ko  Time-motion study of initial exams in general dentistry | Student advisor/Dean’s summer research scholarship |
| 2008 | Andrew Martin  Development of a 3D model for patient records in general dentistry | Student advisor/CTSI STARTUP |
| 2008 | Jonathan Misner  Development of a controlled terminology for dental diagnoses and findings | Student advisor/CTSI STARTUP |
| 2007 | Amat Kamat  Influence of a 3D model on clinical decision-making in general dentistry | Student advisor/CTSI STARTUP |
| 2005 | Thomas Pham  Interacting with information during dental charting | Student advisor/T35 |
| 2005 | Colleen Dugan  Interacting with information during dental charting | Student advisor/T35 |
| 2004 | Bryce Larsen  Appropriateness of a practice management system for dental clinical documentation: Usability | Student advisor/T35 |
| 2004 | Benjamin Lin  Appropriateness of a practice management system for dental clinical documentation: Task-appropriate design | Student advisor/T35 |

**Master’s students**

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| --- | --- | --- |
| 2022 | Nader Zhidan (OSU)  Comorbidities and socio-economic factors affecting COVID-19 Severity: A study of 776,936 cases and 1,362,545 controls in Indiana | Member, MS thesis committee |
| 2011 - 2014 | Charles Borromeo  Supporting searching for collaborators: Topic-focused and social approaches | Member, MS project committee |
| 2011 - 2013 | Corey Stein  A dental emergency communication app for patients | Advisor |
| 2011 - 2013 | Richard Oldham  Decision support for dental treatment planning | Advisor |
| 2008 - 2010 | Marc Clayton  Feasibility of ePrescribing in a dental school | Advisor |
| 2008 - 2009 | Jonhan Ho  Contextual inquiry in anatomic pathology | Member, MS project committee |
| 2007 - 2008 | Joe Rauch  Time utilization in clinical dentistry | Advisor |
| 2006 - 2009 | Teena Wali  Information needs of general dental practitioners during patient care | Advisor |
| 2003 - 2005 | Jeannie Yuhaniak Irwin  Interacting with information during dental charting and treatment planning | Advisor |
| 2003 - 2005 | Patricia Corby  Identifying twins in a research study through iris recognition technology | Advisor |
| 2003 - 2005 | Thankam Thyvalikakath  Appropriateness of a practice management system for dental clinical documentation: Usability | Advisor |
| 2003 - 2005 | Pedro Hernandez  Appropriateness of a practice management system for dental clinical documentation: Task-appropriate design | Advisor |
| 2003 - 2004 | Humberto Torres-Urquidy  Oral and head and neck manifestations caused by bioterrorist agents | Advisor |
| 2002 - 2003 | Bill Bartling  Automatically retrieving dental and craniofacial research abstracts from MEDLINE | Advisor |
| 2000 - 2001 | Humberto Torres-Urquidy  Uso, conocimientos, actitudes y percepciones de los estudiantes de odontologia con respecto a las computadoras [Dental students’ use of, knowledge about and attitudes towards computers] | Advisor |
| 1999 - 2000 | Hikmet Umar  Decision-making under uncertainty in clinical dentistry: A probabilistic approach to a dental clinical advisory system | Advisor |
| 1998 | Wayne Kaiser  Telemedicine in public health, some aspects: Past, present, and future | Thesis defense committee |
| 1995 - 1996 | Michiel Nuveen  Low cost three dimensional skeletal and soft tissue reconstruction in orthodontics | Thesis defense committee, Temple University |
| 1995 | Farshad Zaghi  Application of fractal analysis to assessment of alveolar bone architecture during tooth movement | Thesis defense committee, Temple University |

**Doctoral students**

|  |  |  |
| --- | --- | --- |
| 2021 - 2022 | Heidi Hosler | Mentor |
| 2017 - 2021 | Heather Taylor  Does treating periodontal disease improve the risk for and outcomes of systemic disease? An opportunity for public health informatics research | Advisor |
| 2010 - 2013 | Danielle Hyunsook Lee  Recommendations using users’ social explicit networks | Member, Thesis committee |
| 2009 - 2014 | Danielle Mowery  Development of an NLP-based system for dental charting | Co-Advisor |
| 2008 – 2012 | Thankam Thyvalikakath  Design of an electronic dental record based on cognitive requirements | Advisor |
| 2006 - 2013 | Humberto Torres-Urquidy  Encapsulation during the dental diagnostic process | Advisor |
| 2010 - 2011 | Melissa Castine  Development of a reference ontology for dental findings | Advisor |
| 2006 - 2010 | Amit Acharya  Development of an information model for a general dental record | Advisor |
| 2006 - 2009 | Jeannie Irwin  Speech to chart: Speech recognition and natural language processing for dental charting | Co-Advisor |

**Postdocs or fellows**

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| **Year(s)** | **Student’s Name & Degree/Discipline** |
| 2021 - 2023 | Josh Choi  Development and implementation of a comprehensive wound care registry; Continuing professional education and clinical decision  support: Commonalities, differences, and potential  synergies to promote quality patient care |
| 2022 - 2023 | Cristina Barboi  Establishing family relationships among individuals within the Indiana Network for Patient Care |
| 2020 - present | Helen Fu  Health information technology in support of patient management of Type 2 Diabetes |
| 2020 - 2022 | Jordan Hill  Search behavior of ED physicians in electronic health records |
| 2020 - 2022 | Liz Umberfield  Development and evaluation of a FHIR app for advanced directives |
| 2019 - 2021 | Matt Cain  Data analytics for the opioid epidemic |
| 2019 - 2021 | Bryan McConomy  A problem-focused dashboard for clinician information retrieval; Development and implementation of a comprehensive wound care registry |
| 2018 - 2021 | Rebecca Rivera  Indiana Training Program in Public and Population Health Informatics |
| 2018 - 2021 | Eric Puster  Development and evaluation of a FHIR-based asthma dashboard |
| 2016 - 2017 | Erika Green  User interface design for collaborative filtering for information retrieval in EHRs |
| 2016 - 2018 | Dan Seitz  Integrating electronic health records and health information exchanges using Fast Healthcare Interoperability Resources (FHIR) |
| 2016 - 2018 | Matthias Kochmann  Collaborative filtering for information retrieval in EHRs |
| 2015 - 2017 | Khoa Nguyen  Risk factors for statin-induced adverse drug reactions |
| 2012 - 2013 | Kaihong Liu  Development of an ontology for dental clinical research |
| 2008 - 2010 | Humberto Torres-Urquidy  Development and evaluation of a controlled vocabulary for dental findings and diagnoses |
| 1999 - 2001 | Krishnaraju Kandasamy  Comparative genomics and structure prediction of dental matrix proteins |

**Mentored faculty**

|  |  |
| --- | --- |
| 2022 - present | Seho Park  Statistical methods for learning health systems |
| 2020 - present | Kyle Frick  *Health Dart CV*: Improving healthcare processes and outcomes by directly integrating health information exchange data in the clinical workflow in cardiology |
| 2020 - present | Colin Rogerson  Population health research in pediatrics |
| 2020 - present | Rebecca Rivera  Addressing food insecurity in the clinical environment |
| 2019 - present | Abishek Khemka  (Advanced Scholars Program for Internists in Research and Education)  Cardiovascular outcomes in patients with thymic cancers |
| 2018 – 2022 | Khoa Nguyen  School of Pharmacy, University of Florida |
| 2013 - 2014 | Tim Imler  School of Medicine, Indiana University |
| 2006 - 2011 | Thankam Thyvalikakath  A novel interface computing environment for dental care |

**Service**

**Service to internal organizations**

**Department committees**

|  |  |
| --- | --- |
| 2022 - present | Member, Data Safety Monitoring Board, Seeking Objectivity in Allocation of Advanced Heart Failure (SOCIAL HF) Therapies Trial (PI: K. Breathett) |
| 2017 - present | Member, Admissions Committee, Indiana Public and Population Health Informatics Fellowship |
| 2013 - present | Member, Admissions Committee, Academic/Clinical Informatics Fellowship |
| 2013 - 2015 | Chair, Search Committee, CBMI Faculty |
| 2013 - 2015 | Chair, Faculty Leadership Committee |
| 2010 - 2013 | Member, Training Program Executive Committee, Department of Biomedical Informatics, University of Pittsburgh School of Medicine |
| 2008 - 2013 | Chair, Training Program Retreat Planning Committee, Department of Biomedical Informatics, University of Pittsburgh School of Medicine |
| 2002 - 2013 | Member, Training Program Curriculum Committee, Department of Biomedical Informatics, University of Pittsburgh School of Medicine |
| 1996 - 2013 | Member, Admissions Committee, Department of Biomedical Informatics, University of Pittsburgh School of Medicine |
| 2009 - 2010 | Member, Training Program Evaluation Committee, Department of Biomedical Informatics, University of Pittsburgh School of Medicine |
| 2004 | Member, Search Committee, Chair, Department of Biomedical Informatics, University of Pittsburgh School of Medicine |
| 1998 - 1999 | Member, Search Committee, The Rosenthal Endowed Chair, Department of Oral Medicine, Temple University School of Dentistry |
| 1996 | Member, Promotion and Tenure Committee, Department of Orthodontics, Temple University |
| 1994 - 1998 | Member, Research Committee, Department of Operative Dentistry, Temple University School of Dentistry |
| 1994 - 1998 | Member, Awards Committee, Department of Operative Dentistry, Temple University School of Dentistry |
| 1994 - 1995 | Chair, Departmental Leaves Committee, Department of Operative Dentistry, Temple University School of Dentistry |

**School/university/institute committees**

|  |  |
| --- | --- |
| 2021 - present | Member, Internal Advisory Committee, Indiana University-Ohio  State University Maternal and Pediatric Precision in Therapeutics Data, Model, Knowledge, and Research Coordination Center (IU-OSU MPRINT DMKRCC) |
| 2020 - present | Member, CV Innovation and Technology Council |
| 2020 - present | Member, COVID-19 Research Data Commons (CoRDaCo) Advisory Committee |
| 2019 - 2022 | Member, Regenstrief Executive Council |
| 2015 - 2016 | Member, Search and Screen, Regenstrief Institute President |
| 2015 | Member, Cyberinfrastructure Review Task Force |
| 2015 | Member, IUSM Genomics Core Working Group |
| 2013 - 2015 | Member, Search Committee, Director, Center for Computational Biology and Bioinformatics |
| 2013 - 2015 | Member, Regenstrief Institute Executive Committee |
| 2013 - present | Member, Indiana CTSI Program Leaders Committee |
| 2003 - 2013 | Interviewer, Predoctoral Program, Admissions Committee, University of Pittsburgh School of Dental Medicine |
| 2007 - 2010 | Member, Information Management Accreditation Sub-Committee, University of Pittsburgh School of Dental Medicine |
| 2008 | Member, Search Committee, Senior Scholar in Cyberscholarship, School of Information Science |
| 2002 - 2006 | Member, Information Technology Advisory Committee, University of Pittsburgh |
| 2002 - 2006 | Member University of Pittsburgh, Joint Academic and Student Services Committee, University of Pittsburgh School of Dental Medicine |
| 2002 - 2005 | Member, Health Sciences Information Technology Council, University of Pittsburgh |
| 2002 - 2005 | Member, Health Sciences Information Technology Faculty Advisory Committee, University of Pittsburgh |
| 2002 - 2005 | Member, Joint Advisory Committee (University networks), University of Pittsburgh/UPMC |
| 2005 | Member, Tasks Force on Linking Scholarship to Industry Practice, University of Pittsburgh |
| 2002 - 2004 | Member, Network and Telecommunications Committee, University of Pittsburgh |
| 2004 | Ad-hoc Member, Executive Committee, University of Pittsburgh School of Dental Medicine |
| 2002 - 2003 | Member, Commission on Dental Accreditation Standard 2 (Educational Program) Information Management and Critical Thinking, University of Pittsburgh School of Dental Medicine |
| 2003 | Member, Search Committee, Health Sciences Library System Director, University of Pittsburgh |
| 1997 - 2001 | Member, Health Sciences Center Library Committee, Temple University |
| 1996 - 2001 | Member, Collegial Assembly Promotion and Tenure Committee, Temple University School of Dentistry |
| 1996 - 2001 | Member, Health Sciences Center Library Planning Committee, Temple University |
| 1994 - 2001 | Member, Teaching, Learning, and Technology Committee, Temple University |
| 1993 - 2001 | Member, Research and Advanced Education Committee, Temple University School of Dentistry |
| 1992 - 2001 | Chair, Academic Computing Task Force, Temple University School of Dentistry |
| 1991 - 2001 | Member, Computer Committee, Temple University Health Sciences |
| 1991 - 2001 | Member, Computing Committee, Temple University |
| 2001 | Member, Outcomes Assessment Committee, Temple University School of Dentistry |
| 2001 | Chair, Faculty Disciplinary Review Task Force, Temple University School of Dentistry |
| 1997 - 1998 | Chair, Standing Committee on Outcomes Assessment, Temple University School of Dentistry |
| 1996 - 1998 | Member, Admissions Committee, Temple University School of Dentistry |
| 1996 - 1998 | Member, Continuing Education Committee, Temple University School of Dentistry |
| 1995 - 1997 | Chair, Committee on Outcomes, ADA Accreditation Self-Study, Temple University |
| 1995 - 1997 | Member, Working Group on Central Site Equipment/Networking, Temple University |
| 1995 - 1997 | Member, Distance Learning Pilot Project Committee, Temple University |
| 1995 - 1996 | Member, Lecture and Forum Committee, Collegial Assembly, Temple University |
| 1994 - 1995 | Member, Ad hoc Committee on Basic Sciences and Clinical Correlations, Temple University |
| 1994 - 1995 | Chair, Changing the Culture Subcommittee, Temple University |
| 1992 - 1995 | Member, Communications Planning Committee, Temple University |
| 1991 - 1992 | Member, Microcomputer Users Group, Temple University Health Sciences Center |
| 1992 | Member, Search Committee, Vice President for Computer and Information Services, Temple University |

**University of Pittsburgh Medical Center committees**

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| 2004 - 2013 | Member, eRecord Enterprise-Wide Physician Advisory Council, University of Pittsburgh Medical Center |

**Service to external organizations**

**Professional practice**

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| 2012 - 2013 | Member, RecordLinc, Technical Advisory Board |
| 2011 | Consultant, Indiana University School of Dental Medicine, Information Technology |
| 1999 - 2004 | Consultant, American Dental Association, Dental Information Technology Committee |
| 2000 - 2002 | Advisory Board, DentalXChange.com |
| 2001 | Consultant, University of Pittsburgh School of Dental Medicine, Information Technology Assessment |
| 2000 | Consultant, University of Michigan School of Dentistry, Information Technology |
| 1999 | Consultant, Marquette University School of Dentistry, Information Technology |
| 1996 | Consultant, State University of New York at Buffalo, College of Dental Medicine, Information Technology |

**External committees**

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| 2023 - present | Founder and Chair, *AMIA Climate, Health and Informatics Working Group* |
| 2022 - present | Learning Health Systems Collaborative Workshop (CTSA Coordination, Communication, and Operations Support Center) |
| 2020 - present | Interorganizational liaison, AMIA-HL7 |
| 2020 - present | Member, Cross-CTSA Learning Health System (LHS) Workgroup |
| 2019 - 2020 | Member, Strategy Steering Committee, AMIA |
| 2016 - 2019 | Treasurer, AMIA |
| 2016 - 2019 | Member, Audit Committee, AMIA |
| 2016 - 2019 | Member, Executive Committee, AMIA |
| 2016 - 2019 | Member, Finance Committee, AMIA |
| 2015 - 2016 | Secretary, American College of Medical Informatics |
| 2012 - 2013 | Member, CTSA Connect Advisory Group |
| 2012 - 2015 | Member, Executive Committee, American College of Medical Informatics |
| 2012 - 2013 | Member, Membership and Outreach Committee, American Medical Informatics Association |
| 2010 - 2013 | Member, "Best of Class" Technology Award Selection Panel, Pride Institute |
| 2010 - 2013 | Member, Informatics Key Function Committee Research Networking, Clinical and Translational Science Award Consortium |
| 2006 - 2013 | Member, Communication Workgroup, Clinical and Translational Science Award Consortium |
| 2000 - 2013 | Member, Standards Committee on Dental Informatics, American National Standards Institute |
| 2000 - 2013 | Chair, Working Group 13.1 (Educational Software), Standards Committee for Dental Informatics |
| 2000 - 2013 | Member, Arbeitskreis "Angewandte Informatik in der Zahn-, Mund- und Kieferheilkunde," Deutsche Gesellschaft für Zahn-, Mund-, und Kieferheilkunde |
| 2002 - 2013 | Member, Nominating Committee, Standards Committee on Dental Informatics |
| 2005 - 2011 | Member, Monitoring Committee for Dental Practice-Based Research Networks, National Institute of Dental and Craniofacial Research |
| 2006 - 2009 | Chair, Working Group 11.7: General Dental EHR Information Model, Standards Committee for Dental Informatics |
| 2005 - 2008 | Member, National Health Information Infrastructure Task Force, American Dental Association |
| 2007 | Member, Diagnostic Codes Task Force, American Dental Education Association |
| 2002 - 2004 | Chair, Education Working Group, American Medical Informatics Association |
| 2000 - 2002 | Member, Future of Dentistry Panel, American Dental Association |
| 1997 - 2000 | Member, Project Consortium, Special Interactive TV&Multimedia Programs for Professionals and Public in Dentistry, Quintessence Publishing |
| 1995 - 2000 | Member, Information Technology Advisory Committee, American Dental Education Association |
| 1994 - 1999 | Chair, Accredited Standards Committee Medical Devices 156 Working Group 5, Dental Education and Research Systems, American Dental Association |
| 1992 - 1999 | Member, Accredited Standards Committee Medical Devices 156 Working Group 2, American Dental Association |
| 1994 - 1997 | Chair, Consortium for Clinical Information Systems, American Association of Dental Schools |
| 1991 - 1993 | Chair, Consortium for Clinical Information Systems Working Group, American Association of Dental Schools |

**Other professional activities**

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| 2018 - present | Trained Facilitator, National Research Mentoring Network |
| 2004 | Volunteer, Take a HealthCare Professional to the People Day |