

Curriculum Vitae

Brandon Oberlin, PhD

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Education:

2010 – 2013 Postdoctoral fellow, David Kareken, PhD; Neurology, Indiana University School of Medicine, Indianapolis, IN
2004 – 2010 PhD Medical Neuroscience, IUSM
1999 – 2003 BS Biology, University of Oregon, Eugene, OR

Professional Experience:

2025 – current	Associate Professor Associate Professor Adjunct Faculty	Psychiatry, IUSM, Indianapolis, IN Psychology, IUI ¹ , Indianapolis, IN Neurology, IUSM
2017 – 2025	Assistant Professor Assistant Professor Adjunct Faculty	Psychiatry, IUSM, Indianapolis, IN Psychology, IUI, Indianapolis, IN Neurology, IUSM
2015 – 2017	Research Assistant Professor	Neurology, IUSM, Indianapolis, IN
2013 – 2015	Research Associate	Neurology, IUSM, Indianapolis, IN
2004 – 2010	Graduate Research Assistant	Nicholas Grahame, PhD IUPUI
2005 (Spring)	Graduate Research Assistant	William Truitt, PhD IUSM
2003 – 2004	Research Assistant	Christopher Cunningham, PhD OHSU, Portland, OR
2002 (Summer)	Undergrad Research Assistant	William Roberts, PhD U of Oregon, Eugene, OR
2001 – 2003	Undergrad Research Assistant	Richard Marrocco, PhD U of Oregon
1999	Technician	CH2M Hill, Bioassay Division; Corvallis, OR

Other Positions

2022 – Co-Director of NeuroXR (IUSM/IUI collaborative on therapeutic virtual reality)
<https://neuroxr.iu.edu/>

¹ Note that IUPUI (Indiana University Purdue University Indianapolis) was renamed IUI (Indiana University Indianapolis) on July 1, 2024. Here, “IUPUI” and “IUI” are effectively the same entity but reflect differing epochs. IUSM (Indiana University School of Medicine) was unaffected by the name change.

2021 – Co-Founder and Chief Scientific Officer of Relate XR, LLC
<https://relatexr.com/>

Invited Journal Peer Review:

2025 – *Digital Health*
 2024 – *Journal of Psychiatric Research*
 2024 – *Frontiers in Psychiatry, Addictive Disorders*
 2024 – *Journal of Technology in Behavioral Sciences*
 2024 – *Substance Use: Research and Treatment*
 2023 – *Virtual Reality*
 2022 – *Brain Imaging and Behavior*
 2022 – *Journal of Studies on Alcohol and Drugs*
 2022 – *Addiction*
 2022 – *Journal of Affective Disorders*
 2021 – *Cerebral Cortex*
 2021 – *Behavior Research Methods*
 2020 – *Games for Health Journal*
 2020 – *Journal of Personality Assessment*
 2019 – *Psychiatry Research: Neuroimaging*
 2018 – *Addiction Biology*
 2018 – *Progress in Neuro-Psychopharmacology and Biological Psychiatry*
 2018 – *Neuropsychopharmacology*
 2016 – *NeuroImage*
 2016 – *Alcohol Research: Current Reviews*
 2016 – *Biological Psychiatry*
 2015 – *PLOS ONE*
 2015 – *Addictive Behaviors*
 2014 – *Brain Imaging and Behavior*
 2014 – *Psychopharmacology*
 2011 – *Brain Research*
 2010 – *Translational Research*
 2010 – *Alcoholism: Clinical and Experimental Research*

Honors and Awards:

2024 Techpoint Mira Awards Finalist for “Startup of the Year”, “Tech Innovation of the Year”, and “BioCrossroads Life Sciences Innovation Team Award” (Relate XR, LLC)

2023 First place winner: Life Sciences to Healthcare Solutions Pitch Competition; IU Innovation and Commercialization Office; \$25,000

2022 23 PAIR (Promising Achievers in Innovation and Research) Fellow, BioCrossroads

2013 Poster Award Recipient, 3rd International Conference on Applications of Neuroimaging to Alcoholism (\$500; Yale University School of Medicine)

2006 – 2007 Larry Kays Award for research using delay discounting (\$5000; IUPUI)

2006 Guzé Symposium Meeting Awardee (\$500; Washington University, St. Louis, MO)

2004 – 2005	Indiana University School of Medicine University Fellowship (\$21,000)
2002 – 2003	McNair Scholar Fellowship (1yr tuition plus stipend; University of Oregon)

Grants and Fellowships:

Active:

National Institute on Alcohol Abuse and Alcoholism (R01 AA029396)
Enhancing Prospection with Virtual Reality in Alcohol Use Disorder Recovery.
 Total Direct costs: \$2,049,476; 8/20/2022 – 8/19/2027; Oberlin (PI).

National Institute on Drug Abuse (R34 DA055304)
Virtual Reality-Augmented Future Orientation in Stimulant Use Disorder Recovery.
 Total Direct costs: \$450,000; 5/01/2022 – 4/30/2026; Oberlin (PI).

National Institute on Alcohol Abuse and Alcoholism (R01 AA029607)
Functional connectivity reconfigurations in risk for alcohol use disorders
 Direct costs FY 2022: \$385,136; 09/20/2022 – 6/30/2027 Kareken (PI).

Completed:

National Institute on Alcohol Abuse and Alcoholism (R21 AA029760)
High-intensity and Sensation Seeking Associations with Episodic Simulation Efficacy and Brain Response.
 Total Direct costs: \$262,500; 8/01/2022 – 7/31/2025; Oberlin (PI).

National Institute on Drug Abuse (R41 DA055405)
Virtual Reality Facilitation of Recovery from Opioid Use Disorder.
 Total Direct costs: \$276,448; 9/15/2022 – 9/14/2025; Oberlin (PI).

National Institute on Drug Abuse (R41 DA055405-01S1)
Virtual Reality Facilitation of Recovery from Opioid Use Disorder.
 I-Corps at NIH, Cohort I; (Entrepreneurial Training Program)
 Total Direct costs: \$54,999; 3/01/2025 – 9/14/2025; Oberlin (PI).

Applied Research Institute; Indiana Economic Development Corporation (SA-23061.015)
Digital Therapeutics Technology and Business Development
 Total Direct costs: \$50,000; 3/31/2024 – 3/30/2025; Oberlin (PI) Relate XR (Grantee)

National Institute on Alcohol Abuse and Alcoholism (P60 AA007611)
Center on Genetic Determinants of Alcohol Ingestion and Responses to Alcohol (P67 Pilot project: Enhancing Prospection with High-intensity Future Thinking Cues in Alcohol Use Disorder, PI Oberlin).
 Total costs: \$9,150,563, \$147,103 (pilot); 09/2022 – 06/2027, 12/28/2022 – 11/30/2024 (pilot); Kareken (PI).

National Institute on Alcohol Abuse and Alcoholism (T32 AA007462)
Training Grant on Genetic Aspects of Alcoholism.
 12/01/2018 – 11/30/2021; Czachowski (PI); Oberlin (Faculty Mentor)

National Institute on Alcohol Abuse and Alcoholism (K99/R00 AA023296)

Neural Bases of Alcohol-related Decision-making.

Direct costs: \$991,740; 7/01/2015 – 6/30/2020; Oberlin (PI).

Indiana CTSI PRMC (UL1TR001108)

Enhancing Prospective Thinking in Early Recovery.

Direct Costs: \$20,000; 3/11/2019 – 3/10/2020; Oberlin (PI)

National Institute on Alcohol Abuse and Alcoholism (T32 AA007462)

Training Grant on Genetic Aspects of Alcoholism.

11/01/2010 – 10/31/2013; McBride (PI); Oberlin (Fellow)

National Institute on Alcohol Abuse and Alcoholism (L30 AA020679)

Dopaminergic and Prefrontal Function in Alcoholism

07/01/2011 – 06/30/2013; Oberlin (PI)

National Institute on Alcohol Abuse and Alcoholism (F31 AA016430)

Assessing Impulsivity in High Alcohol Preferring Mice.

2009 Direct costs: \$29,675; 09/16/2006 – 03/01/2010; Oberlin (PI)

National Institute on Drug Abuse (R01 DA039764)

Neural response to risky decision-making and youth at high risk for substance use disorders and HIV.

Total Direct costs: \$637,330; Hulvershorn (PI).

Indiana University School of Medicine Graduate Fellowship

Tuition and stipend; 2004 – 2005 Academic year.

University of Oregon McNair Scholar Fellowship

Tuition and stipend; 2002 – 2003 Academic year.

Mentoring and Teaching:

2025 –	Mentor	Undergraduate summer internship Advisor (Manasa Gannamaneni)
2024 –	Advisor	Faculty mentor; Dalia Elkhatib undergraduate Capstone research on physiological responses to virtual reality: behavioral associations and signal processing
2024 – 2025	Mentor	High school internship Advisor (Samaksh Gupta)
2024	Panelist	Expert panelist for IUI's NIH Cohort 2024 Expert Panel Discussion, "Crafting Winning NIH Grant Proposals: A Cohort Workshop"
2024	Advisor	Presenter and faculty advisor for X519/419 "The Life Sciences Industry from Research to Patient" (Kelley School of Business) class project for Relate XR; George Telthorst, IOR
2024 –	Mentor	Postdoctoral mentoring committee member for NIAAA F32 F32AA032416, "Targeting parvalbumin interneurons to mediate genetic risk for excessive drinking" (Kathleen Bryant)

2024	Mentor	High school summer internship Advisor (Aryan Chander)
2024 –	Mentor	Qualifying Exam Committee Member (Garrett Winkler)
2023 – 2025	Advisor	Faculty mentor; Rebecca Daugherty for undergraduate Honor's College Capstone research on associations between sensation seeking and anxiety using virtual reality
2022 – 2023	Advisor	Faculty mentor; Becca Daye for undergraduate Capstone project, <i>"Testing Associations between Sensation Seeking and Anxiety using Virtual Reality"</i>
2021	Mentor	Site Supervisor; Jasmin Humble (Ball State Univ. Master's Student) Research Internship; August 2021 – Dec 2021
2021 –		Mentor for undergraduate research volunteering for Christina Jacksack and Capstone research project
2021		Mentor for undergraduate research volunteering for Michael Cook
2021 –		Faculty Facilitator for MS1 Neuroscience and Behavior: Substance Use Disorders Case Discussion IUSM medical students; Instructor of Record: Dr. Martin Plawecki
2021 – 2023	Mentor	Dissertation Committee Member (PhD; Shelby White)
2021 – 2022	Instructor	Instructor of Record for Behavioral Neuroscience, B320 IUPUI Psychology
2020 – 2021	Mentor	Chair of Tarah Collins' Master's Proposal committee
2020 –	Mentor	Mentored postgraduate research project with Megayn Lewandowski; Covid-19 pandemic effects on alcohol and drug use.
2020 – 2025	Mentor	Faculty Advisor; Iris Shen for the IUPUI Addictions Neuroscience PhD program
2019 – 2022	Mentor	Co-mentored Meredith Halcomb's postdoctoral research; Including data analysis and manuscript preparation
2019	Mentor	Faculty Advisor; Tarah Butcher for the IUPUI Addictions Neuroscience PhD program
2019 – 2020	Advisor	Faculty mentor; Canaan Passwater for undergraduate Capstone project
2019	Mentor	Site Supervisor; Joshua Grzywana (Ball State Univ. Master's Student) Research Internship; August 2019 – Dec. 2019
2018 – 2019	Instructor	Faculty Facilitator for PGY-III "Case-Based Learning in Addiction Psychiatry" for IUSM Psychiatry residents Instructor of Record: Dr. Andrew Chambers
2019	Mentor	Supervised Iris Shen (Oberlin/Kareken technician) through

		data analysis and preparation for poster presentation at the Greater Indiana SfN meeting, Indianapolis, IN (March 22, 2019)
2018 – 2019	Mentor	Faculty mentor; Zikai Lin, MS for postgraduate research.
2018 – 2021	Mentor	Faculty mentor; Dr. Betsy Lungwitz for a postdoctoral Fellowship on the IU NIAAA T32 Alcohol Training Grant.
2018	Mentor	Mentored Iris Shen (Oberlin/Kareken technician) through data analysis and layout for poster presentation at the Greater Indiana SfN meeting, West Lafayette, IN (March 23, 2018)
2016 – 2017		Mentored Kathryn Snyder (Dr. Kareken technician) through retrospective analysis of existing data sets for poster presentation at IUPUI Research Day (April 7, 2017)
2016	Mentor	Unofficial dissertation advisor for Maria Kudela; attended advisory meetings and mentored her on data and presentation prior to dissertation defense. (IUSM Biostatistics)
2016	Mentor	Research Committee member for Nolan Ramer's (IUPUI Psychology Undergraduate) Capstone Research Project August 2016 – May 2017.
2016	Mentor	Site Supervisor for Zachary Walter (Ball State Univ. Master's Student) Research Internship; May 2016 – Dec. 2016
2016	Mentor	Supervisor for Claire Carron (Dr. Kareken technician) from Nov. 2015-August 2016 (presented poster at local SfN meeting March 25, 2016)
2015	Mentor	Co-mentored Jeremy Myslinski and Nolan Ramer during their undergraduate research project in Dr. Melissa Cyders' Lab (Nolan presented the resulting poster at local SfN March 25, 2016)
2015	Mentor	Co-mentored Sage Bates (IPREP fellow) during her post-Baccalaureate research project (poster presentation at Research Day, April 17, 2015)
2014	Mentor	Provided daily guidance and interaction with Evgeny Chumin during lab rotation in Dr. Kareken's lab
2011	Instructor	PSY-B 344 Learning (IUPUI)
2009	Instructor	PSY-B 344 Learning (IUPUI)
2001	Lab T.A.	BI 252 Molecular Genetics (U of Oregon)

Grant Review:

2024	Addiction Risks & Mechanisms Study Section (495633), <i>ad hoc</i> reviewer
2023	NIH/NIDA Cutting-Edge Basic Research Awards Study Section ZDA1 SKP-N(01), <i>ad hoc</i> reviewer
2022	NIH/NIDA Career Development Education and Training Study Section NIDA-K S, <i>ad hoc</i> reviewer

- 2021 – CTSI Collaboration in Translational Research Awards, *ad hoc* reviewer
- 2020 NIH/NIGMS Special Emphasis Panel: Postdoctoral Research Associate Training (PRAT) F12 Fellowship, *ad hoc* reviewer
- 2020 – CTSI Core Pilot Grants program, *ad hoc* reviewer

Memberships:

- 2024 – College on Problems of Drug Dependence
- 2012 – 2017 American Association for the Advancement of Science
- 2011 – 2014 Society for Neuroeconomics
- 2005 – 2010 American Psychological Association, Division 28
- 2004 – Research Society on Alcoholism

Presentations and Invited Addresses:

Integrating Digital Technology with Substance Use Disorder Treatment: Risk Factors, Virtual Reality, and Artificial Intelligence. “Let’s Discuss”, Fora Health Speaker Series on Mental Wellness. Portland, OR; Oct 23, 2025 (CME).

Plausible Interaction With A Virtual Reality Future Self Increases Delayed Reward Preference and Positive Recovery Outcomes in Randomized Controlled Trial Testing. (Symposium Chair): “Stronger than Chicory Coffee: Novel Psychotherapies for SUD”, 87th Annual College on Problems of Drug Dependence Conference. New Orleans, LA; June 17, 2025.

Beyond Reality: Transforming Care for Concurrent Disorders Through Virtual Innovation. Panel Discussant; British Columbia Mental Health & Substance Use Services 5th Annual B.C. Concurrent Disorders Conference (virtual); April 10, 2025.

Enhancing Addiction Recovery. Special presentation at Caron Treatment Center; Wernersville, PA; Oct 15, 2024.

Artificial Intelligence & Virtual Reality: The Future of Technology in Treatment Services. National Association of Addiction Treatment Providers, 45th Annual Conference. Denver, CO; May 20, 2024 (CME).

Digital Transformation of Substance Use Disorder Treatment: Artificial Intelligence and Virtual Reality. IUSM Neurology Grand Rounds; Indianapolis, IN; March 11, 2024 (CME).

This is your future: virtual reality recovery support, decision-making, and sensation seeking. Serenity Lane Alcohol and Drug Treatment Services special presentation; Eugene, OR; August 17, 2023 (CME).

Addiction-related behavioral traits and neuroimaging. Project ECHO (Extension for Community Healthcare Outcomes): OUD Prescribers and Dispensers; Indianapolis, IN (virtual); June 14, 2023 (CME).

Combining Old Ideas and New Technology for Substance Use Disorder Recovery. IUSM Psychiatry Grand Rounds; Indianapolis, IN; May 5, 2023 (CME).

New Technological Interventions for Substance Use Disorder. IUSM Neuropsychiatry Group; Indianapolis, IN; April 7, 2023.

Virtual Reality Recovery Support Intervention and Sensation Seeking: A Pilot Study. Symposium: “Unpacking Neural Correlates of AUD: Insights from Neuroimaging”, 45th Annual Research Society on Alcoholism Conference; Orlando, FL; June 26, 2022.

Sensation Seeking: A Double-Edged Sword for Addiction. IUSM Addiction Psychiatry Symposium, Indianapolis, IN; Feb 14, 2022 (CME).

Sensation Seeking: Addiction Risk and Prevention. NIDA-NIAAA Neuroscience Workgroup, Teleconference presentation; April 14, 2021.

Increasing Future Reward Preference in Recovery with a Virtual Reality Intervention. IUSM Addiction Psychiatry Symposium, Indianapolis, IN; Oct 19, 2020 (CME).

Addiction: Biology, Behavior, and Brain. IUPUI Neuroscience Club Seminar, Indianapolis, IN; Nov 26, 2019.

Neurobehavioral Correlates of Addiction and Recovery. Fairbanks Alcohol and Drug Addiction Treatment Center, 12th Annual Susan Li Conference, Indianapolis, IN; July 18, 2019 (CME).

Addiction: Nature, Nurture, Brain, and Behavior. Valle Vista Health System, Food for Thought Colloquium Series, Greenwood, IN; Sept 19, 2018 (CME).

Foster the Future: Promoting Delayed Gratification Choices. IUPUI School of Science Addiction Researchers Showcase, Indianapolis, IN; Aug 14, 2018.

Increasing Time Horizons in Recovery. Neuropsychiatry Working Group, Stark Neurosciences Institute, Indianapolis, IN; July 20, 2018.

Choosing Bad: fMRI of Alcohol Cross-Commodity Discounting. 5th Annual Indiana Neuroimaging Symposium, Purdue University, West Lafayette, IN; Nov 3, 2017.

Money Isn't Everything: Discounting Across Commodities. (Symposium Organizer): “How a cross-commodity task informs the behavior and neuroimaging of alcohol choice”, 40th Annual Research Society on Alcoholism Conference; Denver, CO; June 27, 2017.

Neuro-behavioral Assessment and Addiction Risk. Utah State University Department of Psychology Colloquium Series, Logan, UT; Feb 14, 2017.

Choices: Neuro-behavioral Economics and Addiction. IUSM Psychiatry/Stark Neuroscience Institute Seminar Series, Indianapolis, IN; Sept 29, 2016.

Cross-Commodity Discounting in Heavy Drinkers; Sensation Seeking and Addiction Risk. Winter Conference on Animal Learning and Behavior, Winter Park, CO; Jan 31, 2016.

Parsing Ventral Striatal Dopamine Responses to Beer Drinking: Stimulus Effects and Decision-Making. IUPUI Addiction Neuroscience Seminar Series, Indianapolis, IN; Feb 28, 2014.

Ventral Striatal Dopamine Response to Beer Drinking: Stimulus Effects and Impulsive Choice. Indiana University Clinical Colloquium, Bloomington, IN; Feb 14, 2014.

Human Dopaminergic Responses to Alcohol Conditioned Stimuli: risk factors of family history and sensation-seeking. Indianapolis Chapter, Society for Neuroscience, Indianapolis, IN; Sept 28, 2012.

Addiction: Striatal Involvement in Impulsivity. IUSM Addiction Psychiatry Symposium, Institute of Psychiatric Research, Indianapolis, IN; Feb 21, 2012 (CME).

Addiction: Intersection of Impulsivity and Reward. IUSM Addiction Psychiatry Symposium, Institute of Psychiatric Research, Indianapolis, IN; Oct 11, 2011 (CME).

Combined fMRI and PET Imaging of Ventral Striatal Responses to Tasting a Favorite Beer. Symposium: "How brain networks are affected by acute and chronic alcohol consumption: insights from multimodal neuroimaging", 34th Annual Research Society on Alcoholism Conference; Atlanta, GA; June 27, 2011.

High Alcohol Drinking mice are more impulsive than Low Alcohol Drinking mice: Pharmacological Manipulations. Indianapolis Chapter, Society for Neuroscience, Indianapolis, IN; Nov 7, 2008.

High Alcohol Preferring mice are more impulsive than Low Alcohol Preferring mice: Genetic Differences. Indianapolis Chapter, Society for Neuroscience, Indianapolis, IN; Oct 25, 2007.

Invited Lectures:

Virtual Reality Mechanisms and Applications Guest Lecture for PSY-B 334 Perception (IUI Psychology), Amy Pearce, PhD IOR; Indianapolis, IN; Oct 16, 2025.

Addiction Mechanisms and Recovery Guest Lecture for GPSY 580-5 Understanding Drug Abuse (University of Indianapolis), Meredith Halcomb, PhD IOR; Indianapolis, IN; May 21, 2025.

Virtual Reality Mechanisms and Applications Guest Lecture for PSY-B 334 Perception (IUI Psychology), Amy Pearce, PhD IOR; Indianapolis, IN; Oct 24, 2024.

Neurobehavior of Impulsivity and Addiction. Addiction Psychiatry Core Didactics (IUSM Psychiatry Residents PGY 2/3/4); R. Andrew Chambers, MD Instructor; IUSM Psychiatry; Indianapolis, IN; Jan 5, 2024.

Neurobehavior of Impulsivity and Addiction. Addiction Psychiatry Core Lecture Series (IUSM Psychiatry Residents PGY 2/3/4); R. Andrew Chambers, MD Instructor; IUSM Psychiatry; Indianapolis, IN; May 13, 2022.

Decision-making and Addiction: My Research Program and Journey. Foundations of Neuroscience (PSY-B 201) mentoring/enrichment seminar; Bethany Neal-Beliveau, PhD Instructor; IUPUI Psychology; Indianapolis, IN; Nov 5, 2020.

Addiction Recovery and Neurobiology. Alcohol, Alcoholism, and Drug Abuse (PSY-B 396); Marian Logrip, PhD Instructor; IUPUI Psychology; Indianapolis, IN; Dec 2, 2019.

Using Behavioral Economics to Study Addiction. Psychology of Learning (PSY 324); William Eiler, PhD, Instructor; Franklin College, Franklin, IN; Oct 26, 2017.

Publications:

Research Papers & Reviews:

1. Daugherty RC, Jacksack CS, Daye BJ, **Oberlin BG** (2025) Association Between Sensation Seeking and Fear Response: An Interventional Study of Personality and Behavior using a Virtual Reality Heights Simulation. *JMIR XR and Spatial Computing*. 2 e73785.
2. Lewandowski ME, Delawalla CN, Butcher TJ, **Oberlin BG** (2024) Changes in substance use, recovery, and quality of life during the initial phase of the COVID-19 pandemic. *PLOS ONE* 19(5). PMID: PMC11111065.

3. Lungwitz EA, Dzemidzic M, Shen YI, Plawecki MH, **Oberlin BG** (2023) Brain response in heavy drinkers during cross-commodity alcohol and money discounting with potentially real rewards: a preliminary study. Drug and Alcohol Dependence Reports 8. PMID: PMC1051851.
4. Shen YI, Nelson AJ, **Oberlin BG** (2022) Virtual reality intervention effects on future self-continuity and delayed reward preference in substance use disorder recovery: pilot study results. Discover Mental Health 2(1). PMID: PMC9477176.
5. Halcomb ME, Dzemidzic M, Shen YI, Lin Z, Butcher TJ, Yoder KK, **Oberlin BG** (2022) Delay discounting and alcohol consumption correlate with dorsal anterior insula activation during choice in non-treatment-seeking heavy drinkers. Alcoholism: Clinical and Experimental Research 46(8). PMID: PMC9427725.
6. Butcher TJ, Dzemidzic M, Harezlak J, Hulvershorn LA, **Oberlin BG** (2021) Brain responses during delay discounting in youth at high-risk for substance use disorders. NeuroImage: Clinical 32:102772. PMID: PMC8414537.
7. **Oberlin BG**, Carron CR, Ramer NE, Plawecki MH, O'Connor SJ, Kareken DA (2021) Intoxication effects on impulsive alcohol choice in heavy drinkers; correlation with sensation seeking and differential effects by commodity. Alcoholism: Clinical and Experimental Research 45(1). PMID: PMC7855750.
8. Amico E, Dzemidzic M, **Oberlin B**, Carron C, Harezlak J, Goni J, Kareken D (2020) The disengaging brain: Dynamic transitions from cognitive engagement and alcoholism risk. NeuroImage 209:116515. PMID: PMC8496455.
9. **Oberlin BG**, Shen YI, Kareken DA (2020) Alcohol use disorder interventions targeting brain sites for both conditioned reward and delayed gratification. Neurotherapeutics 17(1):70-86. PMID: PMC7007465.
10. **Oberlin BG**, Ramer NE, Bates SM, Shen YI, Myslinski JS, Kareken DA, Cyders MA (2020) Quantifying Behavioral Sensation Seeking with the Aroma Choice Task. Assessment 27(5): 873-886. PMID: PMC7021169.
11. Kudela MA, Dzemidzic M, **Oberlin BG**, Goni J, Kareken DA, Harezlak J (2019) Semiparametric estimation of task-based dynamic functional connectivity on the population level. Frontiers in Neuroscience PMID: PMC6598619.
12. **Oberlin BG**, Džemidžić M, Eiler II WJA, Carron CR, Soeurt CM, Plawecki MH, Grahame NJ, O'Connor SJ, Kareken DA (2018) Pairing neutral cues with alcohol intoxication: new findings in executive and attention networks. Psychopharmacology 235(9): 2725-2737. PMID: PMC6119082.
13. Eiler II WJA, Džemidžić M, Soeurt CM, Carron CR, **Oberlin BG**, Considine RV, Harezlak J, Kareken DA (2018) Family history of alcoholism and the human brain response to oral sucrose. NeuroImage: Clinical 17: 1036-1046. PMID: PMC5767843.
14. **Oberlin BG**, Džemidžić M, Harezlak J, Kudela MA, Tran SM, Soeurt CM, Yoder KK, Kareken DA (2016) Corticostriatal and dopaminergic response to beer flavor with both fMRI and [¹¹C]raclopride PET. Alcoholism: Clinical and Experimental Research 40(9): 1865-73. PMID: PMC5008996.

15. Charpentier J, Džemidžić M, West JD, **Oberlin BG**, Eiler II WJA, Saykin AJ, Kareken DA (2016) Externalizing personality traits, empathy, and gray matter volume in healthy young drinkers. Psychiatry Research: Neuroimaging 248: 64-72. PMID: PMC4760619.
16. **Oberlin BG**, Albrecht DS, Herring CM, Walters JW, Hile KL, Kareken DA, Yoder KK (2015) Monetary discounting and ventral striatal dopamine receptor availability in nontreatment-seeking alcoholics and social drinkers. Psychopharmacology 232(12): 2207-16. PMID: PMC4545519.
17. Weafer J, Džemidžić M, Eiler II WJA, **Oberlin BG**, Wang Y, Kareken DA (2015). Associations between regional brain physiology and trait impulsivity, motor inhibition, and impaired control over drinking. Psychiatry Research: Neuroimaging 233(2): 81-87. PMID: PMC4536192.
18. **Oberlin BG**, Džemidžić M, Tran SM, Soeurt CM, O'Connor SJ, Yoder KK, Kareken DA (2014) Beer self-administration provokes lateralized nucleus accumbens dopamine release in male heavy drinkers. Psychopharmacology 232(5): 861-70. PMID: PMC4326548.
19. Kareken DA, Džemidžić M, **Oberlin BG**, Eiler II WJA (2013) A Preliminary Study of the Human Brain Response to Oral Sucrose and its Association with Recent Drinking. Alcoholism: Clinical and Experimental Research 37(12): 2058-65. *[Selected for EurekAlert!]* PMID: PMC4166559.
20. Kareken DA, Džemidžić M, Wetherill M, Eiler II W, **Oberlin BG**, Harezlak J, Wang J, O'Connor SJ (2013) Family history of alcoholism interacts with alcohol to affect brain regions involved in behavioral inhibition. Psychopharmacology 228(2): 335-45. PMID: PMC3695053.
21. **Oberlin BG**, Džemidžić M, Tran SM, Soeurt CM, Albrecht DS, Yoder KK, Kareken DA (2013) Beer flavor provokes striatal dopamine release in male drinkers: mediation by family history of alcoholism. Neuropsychopharmacology 38(9): 1617-24. *[Selected as Featured Article]* PMID: PMC3717546.
22. Schulte T, **Oberlin BG**, Kareken DA, Marinkovic K, Müller-Oehring EM, Meyerhoff DJ, Tapert S (2012) How Acute and Chronic Alcohol Consumption affects Brain Networks: Insights from Multimodal Neuroimaging. Alcoholism: Clinical and Experimental Research 36(12): 2017-27.
23. **Oberlin BG**, Džemidžić M, Bragulat V, Lehigh CA, Talavage T, O'Connor SJ, Kareken DA (2012) Limbic responses to reward cues correlate with antisocial trait density in heavy drinkers. NeuroImage 60(1): 644-52. PMID: PMC3288676.
24. **Oberlin BG**, Best C, Matson L, Henderson A, Grahame N (2011) Derivation and characterization of replicate high- and low- alcohol preferring lines of mice and a high-drinking crossed HAP line. Behavior Genetics 41(2): 288-302. PMID: PMC4041157.
25. **Oberlin BG**, Bristow RE, Heighton ME, Grahame NJ (2010) Pharmacologic dissociation between impulsivity and alcohol drinking in High Alcohol Preferring mice. Alcoholism: Clinical and Experimental Research 34(8): 1363-75. PMID: PMC3967789.
26. Fidler TL, **Oberlin BG**, Struthers AM, Cunningham CL (2009) Schedule of passive ethanol exposure affects subsequent intragastric ethanol self-infusion. Alcoholism: Clinical and Experimental Research 33(11): 1909-23. PMID: PMC2883445.
27. **Oberlin BG**, Grahame NJ (2009) High alcohol preferring mice are more impulsive than low alcohol preferring mice as measured in the delay discounting task. Alcoholism: Clinical and Experimental Research 33(7):1-10. *[Selected for EurekAlert!]* PMID: PMC2872785.

28. Truitt WA, Sajdyk TJ, Dietrich AD, **Oberlin B**, McDougale CJ, Shekhar A (2007) From anxiety to autism: spectrum of abnormal social behaviors modeled by progressive disruption of inhibitory neuronal function in the basolateral amygdala in Wistar rats. Psychopharmacology (Berl) 191(1):107-18. PMID: 17277936.
29. **Oberlin BG**, Alford JL, Marrocco RT (2005) Normal attention orienting but abnormal stimulus alerting and conflict effect in combined subtype of ADHD. Behavioural Brain Research 165(1):1-11. PMID: 16213034.

Abstracts / Posters:

- Lind CM, Shen YI, Turo SM, Dziedzic M, **Oberlin BG**. (2025) Augmenting prosocial AUD recovery outcomes with high intensity episodic future thinking: Neurobehavioral findings. Alcohol: Clinical and Experimental Research. 49(S1): S218.
- Turo SM, Lind CM, Shen YI, Nelson AJ, **Oberlin BG**. (2025) Enhancing recovery outcomes in early recovery from alcohol and substance use disorder with immersive virtual reality. Alcohol: Clinical and Experimental Research. 49(S1): S215.
- Shen YI, Dziedzic M, Nelson AJ, **Oberlin BG**. (2025) Future self-continuity and brain activation: hippocampal associations with AUD factors in a virtual reality intervention study. Alcohol: Clinical and Experimental Research. 49(S1): M199.
- Kierski A, Barnett W, **Oberlin B**, Lapish C. (2024) Reconstructing dynamics of decision-making using recurrent neural networks. Stark Neuroscience Research Institute Student Symposium; 7/22/2024 Indianapolis, IN.
- Shen YI, Lewandowski ME, Dziedzic M, Nelson AJ, **Oberlin BG**. (2024) Virtual future selves intervention in early AUD recovery increases delay tolerance and future self continuity: Randomized controlled trials. Alcoholism: Clinical and Experimental Research. 48(S1): 226A.
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*authorship added after abstract submitted

Healthcare Product Entrepreneurship

Branam I, **Oberlin BG**. *Future Reality Portal: Enhancing Addiction Recovery*; IU Life Sciences to Healthcare Solutions Pitch Competition Finals; IU Innovation and Commercialization Office, Indianapolis, IN, April 20, 2023.

IU Innovates Founder Ambassador, Rally Innovation Conference, Indianapolis, IN, Sept 24, 2024.
IU Innovates Founder Ambassador, Global Entrepreneurship Congress, Indianapolis, IN, June 3, 2025.

Innovate Indiana 2024 Entrepreneurship book feature. "Relate XR, Harnessing virtual reality technology to treat substance use disorders" <https://innovate.iu.edu/innovates/0625-iu-entrepreneurship-book-spreads-digital.pdf>

Intellectual Property

Inventor of immersive digital therapeutic virtual reality intervention for AUD/SUD
"AVATAR-BASED BEHAVIOR CHANGING SYSTEM AND METHOD"
US 12,406,421 B2, issued 9/2/2025

Exclusive Licensee (through Relate XR, LLC), IU Agreement No. 2025-0085

Media Reports:

Meeting Your Future (Virtual) Self. Interview and article by Lucas Fisher; 'A Moment of Science', WFIU Indiana Public Media; July 2, 2025.
<https://www.ipm.org/show/amomentofscience/2025-07-02/meeting-your-future-virtual-self>

Psychologists find ever-expanding uses for virtual reality. Interview and article by Anna Medaris; American Psychological Association Practice Update newsletter; May 16, 2025.
<https://www.apaservices.org/practice/news/psychologists-uses-virtual-reality>

"IU aids addiction recovery with 'future-self avatars'"; USA Today (IU) sponsored story; April 7, 2025. <https://www.usatoday.com/story/sponsor-story/indiana-university/2025/04/07/iu-aids-addiction-recovery-with-future-self-avatars/82871223007/>

Researchers eye virtual reality to revolutionize drug addiction treatment. Interview and presentation by Kody Fisher (Reporter); WISHTV; March 20, 2025.
<https://www.wishtv.com/news/i-team-8/virtual-reality-treating-drug-addiction/>

Startup supports addiction recovery through VR therapy using 'future-self avatars' Kevin Fryling (Senior storyteller); IU Newsroom; March 10, 2025. <https://news.iu.edu/live/news/44392-startup-supports-addiction-recovery-through-vr-therapy>

A New Tool To Fight Drug Addiction—Using Virtual Reality—Emerges From A University-Based Startup. From interview with Elaine Pofeldt (Senior Contributor) focused on Relate XR's technology and business; Forbes; September 30, 2024. <https://www.forbes.com/sites/elainepofeldt/2024/09/29/a-new-tool-to-fight-drug-addiction-virtual-reality-emerges-from-a-university-based-startup/>

IU researchers developing virtual-reality tool to treat substance abuse. Print interview with Susan Orr focused on the technology, patent, and Relate XR startup surrounding the VR SUD intervention; Indiana Business Journal; November 27, 2022.

Virtual Reality and the Vision of a Brighter Future; Print interview with Mark Mravic on the integration of VR with psychological aspects of addiction treatment; Treatment Magazine; November 26, 2022. <https://treatmentmagazine.com/virtual-reality-and-the-vision-of-a-brighter-future/>

Print interview with Mary Roberts on the promise of virtual reality for SUD recovery support and NIH funding for future trials; Inside Indiana Business; November 26, 2022.

Television interview with Brad Forestal and Michelle Kaufman on the published VR pilot study, the technological development, and the experience of one past participant in early recovery; WRTV Indianapolis, ABC affiliate; November 26, 2022. <https://www.wrtv.com/news/local-news/indianapolis/iu-researchers-working-to-help-those-in-recovery-through-virtual-reality>

IU affiliated startup develops VR technology to improve substance use recovery results; Print interview with Meghana Rachamadugu on virtual reality-related NIH funding and startup company; Indiana Daily Student, Bloomington, Indiana; November 25, 2022.

Television interview with Matthew Fultz on virtual reality intervention for substance use and recovery; WTHR Indianapolis, Channel 13 NBC affiliate; November 23, 2022.

Noon Edition. Roundtable with Drs. Edward Hirt and William Hetrick, hosted by Bob Zaltsberg; 103.7 FM WFIU, Bloomington, Indiana; September 2, 2016. <https://indianapublicmedia.org/noonedition/addiction-selfsabotage-findings-brain-research.php>

IU Researchers: Taste of Alcohol Linked to Brain Addiction Markers. Interview with Jill Sheridan; 90.1 FM WFYI, Indianapolis, Indiana; August 30, 2016.

Dopamine Release to Beer Flavor. Interview with Evan Gold; Health, Wealth & Wisdom; News Talk 1470 AM WMGG, Tampa Bay, Florida; May 2, 2013.

Presentations:

Sins of the Father: Family History, Dopamine, and Alcohol Cues. 3rd Annual Ann Daugherty Symposium for Basic Science and Addiction Recovery. Tara Treatment Center, Franklin, IN; June 8, 2012 (CME).

The role of drug-paired stimuli: Implications for reward and relapse. 2nd Annual Ann Daugherty Symposium for Basic Science and Addiction Recovery. Tara Treatment Center, Franklin, IN; May 27, 2011 (CME).

Does Impulsivity Underlie Addiction? Etiology and Treatment Implications. 1st Annual Ann Daugherty Symposium for Basic Science and Addiction Recovery. Tara Treatment Center, Franklin, IN; May 14, 2010 (CME).

Self-Control and Impulsivity: Effects of Selective Breeding and Drugs in Mice. Dissertation Talk Public Seminar. Institute of Psychiatric Research, IUPUI, Indianapolis, IN; March 10, 2010.

Selectively bred high-alcohol-preferring mice are more impulsive than low-alcohol-preferring mice in a delay discounting task. 20th Annual Tri-State Conference on Animal Learning and Behavior. Purdue University, West Lafayette, IN; April 27, 2007.

Discounting of delayed saccharin rewards by high alcohol preferring mice. 19th Annual Tri-State Conference on Animal Learning and Behavior. Indianapolis, IN; April 8, 2006.

Gene Structure and Expression of CtBP2/RIBEYE in Danio Rerio. 10th Annual National McNair Research Conference and Graduate Fair. Delavan, WI; Sept 2002.

Service:

Faculty Search Committee Member, IUI Psychology Addiction Neuroscience Program (2024)

Program Committee Member, Research Society on Alcohol (2023 – 2024)

Graduate Admissions Interviewer, IUSM Indiana BioMedical Gateway PhD program (2024)

Clinical Master's Research Internship Site Supervisor for Jasmin Humble (intern) in collaboration with Ball State University, Muncie, IN (August 2021 – Dec 2021).

Clinical Master's Research Internship Site Supervisor for Joshua Grzywana (intern) in collaboration with Ball State University, Muncie, IN (August 2019 – May 2020).

IPREP Post-Baccalaureate Research Education Program ad hoc admissions committee member, March 2019, IUPUI.

Clinical Master's Research Internship Site Supervisor for Zach Walter (intern) in collaboration with Ball State University, Muncie, IN (May 2016 – Dec. 2016).

Indianapolis Society for Neuroscience Travel Award Judge (Feb 2016).

Ann Daugherty Symposia for Basic Science and Addiction Recovery (Franklin, IN) 2010, 2011, 2012; Co-organizer.

International Brain Bee (Indianapolis), Dec 14, 2019; Judge.

International Brain Bee (Indianapolis), Dec 7, 2018; Judge.

International Brain Bee (Indianapolis), Dec 7, 2013; Volunteer.

International Brain Bee (Indianapolis), Jan 23, 2010; Judge.

NIAAA Trainee Workshop, Nov. 4-5, 2005, Indianapolis, IN; Selection Committee, Organizer.