UNIVERSITY OF COLORADO SCHOOL OF MEDICINE

Drew E. Winters, PhD.

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Biographical Sketch

Drew E. Winters, PhD. holds a Research Faculty appointment at the University of Colorado Anschutz Medical Campus In the department of Psychiatry. His research focuses on brain and behavior mechanisms underlying executive and socio-affective function with an emphasis on adolescents with callous-unemotional traits. In this vein, this work aims to identify replicable neural mechanisms that may improve development and testing of interventions for youth with antisocial phenotypes.

Education

University of Colorado, Aurora - T32 Post-Doctoral Fello - Primary mentor: Dr. Jos	July 2023		
Indiana University, Indianapoli	April 2020		
	Indiana University, Indianapolis, IN. – MSW		
Purdue University, Fort Wayne, IN. – B.S.			May 2016 May 2013
Certifications			
Machine Learning Using Scikit	May 2022		
Data Scientist in Python - DataCamp			Nov 2021
Computational Neuroscience – Neuromatch Academy			July 2021
Data Scientist in R – DataCamp			April 2020
	Multilevel Modeling II Advanced Topics – EITM		
	Network Analysis II Advanced Topics – EITM		
Structural Equation Modeling with Latent Variables – EITM			Oct 2018
Academic Appointments			
University of Colorado SOM	Psychiatry	Associate Research Faculty	2023-Present
Indiana University	Psychology	Adjunct Professor	2023-Present
University of Colorado SOM	Psychiatry	Post-Doctoral Fellow	2020-2023
University of Colorado SOM	Psychiatry	Statistician	2021-2022
University of Michigan	Statistics	Instructor	2019-2023
Indiana University	Social Work	Adjunct Professor	2017-2020
Indiana University SOM	Psychiatry	Research Analyst	2018-2020
Indiana University SOM	Social Work	Research Assistant	2016-2020
Indiana University	Psychology	Research Assistant	2014–2015
Clinical Positions			
UCHealth Encompass program - Aurora, CO		Therapist	2020-2021
	Family Works Inc Indianapolis, IN		2016-2020
Rogers behavioral health – Sko		Home-Based Therapist Behavioral Therapist	2015-2016
ASPIRE behavioral health – Indianapolis IN		Case Worker	2013-2015
Park Center mental health – Fort Wayne, IN		Case Worker	2008-2013

Honors, Special Recognitions, and Awards

Joseph and Alida Newman Award	2023
Society for the Scientific Study of Psychopathy (SSSP) Postdoctoral Association Travel Award – University of Colorado, Aurora, CO	2021
Multilevel Modeling II: Advanced Topics – Statistical Competence Empirical Implications of Theoretical Models	2021
Network Analysis II: Advanced Topics – Statistical Competence Empirical Implications of Theoretical Models	2021
Structural Equation Modeling with Latent Models – Statistical Competence Empirical Implications of Theoretical Models	2018
Developmental, Child, and Family Psychology Fellowship ICPSR Quantitative Methods of Social Research Ann Harbor, MI	2018
Indiana University Travel Fellow	2017-2019
Graduate Professional Student Government Fellowship	2016
Miranda Pang Endowment	2014
Phi Kappa Phi: Academic Honor Society	2013
Tau Upsilon Alpha: Human Services Academic Honor Society	2013
Hellen I. and Rodney E. Nern Scholarship	2013
Membership in professional organizations	
Society for the Scientific Study of Psychopathy (SSSP)	2022
Society of Clinical Child and Adolescent Psychology	2020
Society for Social Work and Research (SSWR)	2017
Major Committee and Service Responsibilities	
Board of Directors, National Association of Alcohol and other Drugs of Abuse	2011–2018
Counselors, Indiana Chapter, Indianapolis, IN	
Licensure and Board Certification	
Nationally Certified Addiction Counselor level two (NCAC-II)	2013-2015
Nationally Certified Addiction Counselor level two (NCAC-II) Licensed Social Worker (LSW)	2015-2023
Nationally Certified Addiction Counselor level two (NCAC-II)	
Nationally Certified Addiction Counselor level two (NCAC-II) Licensed Social Worker (LSW) Licensed Clinical Social Worker (LCSW) Review and Referee Work	2015-2023
Nationally Certified Addiction Counselor level two (NCAC-II) Licensed Social Worker (LSW) Licensed Clinical Social Worker (LCSW) Review and Referee Work Ad Hoc Reviewer	2015-2023 2023-Present
Nationally Certified Addiction Counselor level two (NCAC-II) Licensed Social Worker (LSW) Licensed Clinical Social Worker (LCSW) Review and Referee Work Ad Hoc Reviewer Cortex	2015-2023 2023-Present 2023
Nationally Certified Addiction Counselor level two (NCAC-II) Licensed Social Worker (LSW) Licensed Clinical Social Worker (LCSW) Review and Referee Work Ad Hoc Reviewer Cortex Brain and Behavior Functions	2015-2023 2023-Present 2023 2023
Nationally Certified Addiction Counselor level two (NCAC-II) Licensed Social Worker (LSW) Licensed Clinical Social Worker (LCSW) Review and Referee Work Ad Hoc Reviewer Cortex Brain and Behavior Functions European Child and Adolescent Psychiatry	2015-2023 2023-Present 2023 2023 2023
Nationally Certified Addiction Counselor level two (NCAC-II) Licensed Social Worker (LSW) Licensed Clinical Social Worker (LCSW) Review and Referee Work Ad Hoc Reviewer Cortex Brain and Behavior Functions European Child and Adolescent Psychiatry Personality and Individual Differences	2015-2023 2023-Present 2023 2023 2023 2023 2023
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Mindfulness 2016

Open-Source Software Packages

resmod. A python package that derives interaction terms using centered residuals https://pypi.org/project/resmod/, role: author

fsub_extractor. A python package that ties diffusion and functional brain data together. https://github.com/smeisler/fsub_extractor, role: contributor

Invited Extramural lectures, Presentations and Visiting Professorships

Winters, D.E., *Statistical approaches to model functional brain data*. Quantitive Dec 2023 Collective, Pittsburgh, PA.

Winters, D.E., *Distinct functional brain patterns underlying executive and social function in adolescents with callous-unemotional traits.* EDEN lab at the University of Pennsylvania, Philadelphia, PA.

Winters, D.E., Massey, S., Sakai, J. T., *Adolescent substance use in response to* June 2023 *social consequences of use: The role of empathy.* Research Society on Alcoholism, Bellevue, WA.

Winters, D.E., Sakai, J.T., *Affective theory of mind impairments underlying callous-unemotional traits and the role of cognitive control*. Society for Scientific Study of Psychopathy. New York, New York

Winters, D.E., Functional Brain Properties in Adolescents with Callous-Unemotional Traits and Potential Mechanisms. Developmental Psychobiology Research Group, Denver, CO

Winters, D.E., Longitudinal Data Analysis Using Secondary Data. S728 Jan 2023 multivariate statistics, Dr. Sadaaki Fukui. Indiana University School of Social Work, Indianapolis, IN.

Winters, D.E., Sakai, J.T., Carter, R.M., Computational Lesioning of
Heterogenous Functional Connectomes Explains Variance in Adolescent
Callous-Unemotional Traits. Neurohackadamy, University of Washington,
Seattle, WA

Sanchez, C.R., Cooley, J.L., **Winters, D.E.**, Ricker, B.T., & Fite, P.J.

Prospective associations between forms of aggression and peer victimization:

The moderating role of prosocial behavior. Biennial Research Conference on Relational Aggression, Virtual Conference.

Winters, D.E., *Introduction to R for medical students*. University of Colorado April 2022 Anschutz Medical Campus, Aurora, CO

Winters, D.E., Cognitive Load Sensitivity Impacts Theory of Mind Impairments April 2022 in Callous-Unemotional Traits. Developmental Psychobiology Research Group, Denver, CO

Winters, D.E., Affective Theory of Mind Impairments in Youth with Callous-Unemotional Traits: The Role of Cognitive Control. American College of Neuropsychopharmacology. San Juan, PR

Winters, D.E., *Network typology of adolescents with callous-unemotional traits*. Department of Psychiatry Poster Session, University of Colorado Anschutz Medical Campus, Aurora, CO

Winters, D.E., Adolescent Prosocial Behavior and Affective Theory of Mind: March 2021

The Role of Cognitive Control of Research Group, Denver, CO	and Callousness. Developmental	Psychobiology	
Winters, D.E., Longitudinal Demultivariate statistics, Dr. Sada Work, Indianapolis, IN.	Jan 2021		
Winters, D.E., Neural Connectivity of Empathy and its Impairments in Adolescents. Developmental Psychobiology Research Group, Denver, CO			Oct 2020
Winters, D.E. , <i>Statistical Approaches of Propensity Score Matching</i> . Training the Indiana Department of Children Services data analysis and evaluation team, Indianapolis, IN.			March 2020
Winters, D.E., Secondary data analysis. S728 multivariate statistics, Dr. Sadaaki Fukui. Indiana University School of Social Work, Indianapolis, IN.			Jan 2020
Winters, D.E. Mindfulness and Acceptance and Commitment Therapy in Clinical Practice. Advanced clinical practice, Dr. Vincent Starnino, instructor. Indiana University School of Social Work, Indianapolis, IN.			June 2017
Winters, D.E . <i>Mindfulness in Addictions Treatment</i> . Presentation to staff and clients at the Life Recovery Center, Indianapolis, IN.			Aug 2016
Winters, D.E . <i>Mindfulness in Clinician Self-Care, and Clinical Practice</i> . Presented to the staff and honor society recipients of Chi Eta Sigma for marriage and family therapist. Purdue University.			April 2016
Teaching Record Indiana University— Adjunct Pr PSY-I 535 Developmental Neur	•	Online	Spring 2024
University of Michigan: Institut	te for Social Research ICPSR -	Instructor	
Multilevel Modeling I: Introduc		Seminar	Summer 2023
Regression Analysis II: Linear I	nodels	Online	Summer 2020
Regression Analysis II: Linear I	models	Seminar	Summer 2019
Indiana University– Adjunct Pr	ofessor in Social Work		
S728 Advanced Statistics – Stat	istics Lab	Seminar	Spring 2020
S718 Intermediate Statistics – S	tatistics Lab	Seminar	Fall 2019
S728 Advanced Statistics – Stat	istics Lab	Seminar	Spring 2019
S718 Intermediate Statistics – S		Seminar	Fall 2018
S517 Assessment in Mental Hea	alth & Addictions	Seminar	Summer 2018
Indiana University School of So	cial Work – Teaching Assistan	t	
S623 Practice Research Integrat	ive Seminar	Online	Summer 2017
S623 Practice Research Integrat		Online	Spring 2017
S623 Practice Research Integrat	ive Seminar	Seminar	Fall 2016
Mentoring			
Women in STEM – Role: Research	arch Mentor		2023-Current
- I mentored Loretta Tsu	and Jillian King on the areas of clyses, and navigating academia.	conducting	2020 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1
Juliet Spitz, B.A. – Role: Resea - I mentored Juliet in rese			2023-Current

 Harshith Alete, MS. – Role: Research Mentor I mentored Harshith in conducting research and writing manuscripts resulting in one article submission. 	2023
Neuromatch Academy – Rold: Computational Neuroscience Mentor - I mentored a group of five participants in the computational neuroscience track on completing capstone project.	2022
Gabriel Yepes, M.D. – Role: Research Mentor - I mentored Dr. Yepes on conducting research and writing manuscripts resulting in one research publication.	2021
Grant Support Current	
Developmental Psychobiology Endowment. Project title: 'Cognitive control limitations amongst adolescents with callous-unemotional traits that impact the capacity for theory of mind: Evidence from a dual-task paradigm.' Funding amount \$7,355 <u>Role</u> : PI	2023–2025
Submitted and Pending Grants National Institute of Mental Health – K23. Project title: 'Functional connectivity underlying callous-unemotional traits in early adolescents implicated in cognitive control impairments that impact affective theory of mind.' Role: PI	2023–2028
National Institute of Mental Health – R21. Project title: 'Functional brain network topology and changes in salience, social, and executive function systems in adolescents with callous-unemotional traits.' Role: PI	2023–2025
Completed	
National Institutes of Mental Health T32MH015442-42; Laudenslager, Mark (PI), Developmental Psychopathology, Psychobiology & Behavior. Role: Postdoctoral Fellow	2020–2023
Developmental Psychobiology Endowment. Project title: 'The effects of cognitive load on prosocial behavior amongst early adolescents with high callous-unemotional traits and typically developing controls.' Funding amount \$7,220 Role: PI	2021–2022
Indiana Department of Children Services Title IV-E Waiver A93-3-13-4F-C0-0981; Hall, Jim (PI), Pierce, Barbra (PI), Indiana University School of Medicine. Role: Research Analyst	2017–2020

Bibliography

Published

Open science legend: * = preregistered; + = analysis code shared; # = shared/open data

Published Peer-Reviewed Articles

- Sanchez, C.R., Ricker, B., **Winters, D.E.,** Fite, P.J., Cooley, J. (in press). Associations Between Forms of Aggression and Peer Victimization: Does Prosocial Behavior Matter? *Development and Psychopathology*.
- *+# Winters, D. E., Guah, A., Sakai, J.T. (2023). Connectome-based predictive modeling of empathy in adolescents with and without the low-prosocial emotion specifier. Neuroscience Letters. DOI: 10.1016/j.neulet.2023.137371

- *+# Winters, D. E., Leopold, D. R., Sakai, J. T., & Carter, R. M. (2023). Efficiency of heterogenous functional connectomes explains variance in callous-unemotional traits after computational lesioning of cortical midline and salience regions. *Brain Connectivity*. DOI: 10.1089/brain.2022.0074
- *+# Winters, D.E., Sakai, J.T. (2023). Cognitive processes underlying prosocial decision making in callous-unemotional traits. *Psychopathy & Behavioral Assessment*. DOI: 10.1007/s10862-023-10043-x
- +# Winters, D.E., Sakai, J.T. (2023). Affective theory of mind impairments underlying callousunemotional traits and the role of cognitive control. *Cognition and Emotion*. DOI: 10.1080/02699931.2023.2195154
- +# Sakai, J.T., Chintaluru, Y., **Winters, D.E.,** Raymond, K., McWilliams, S., Carter, R.M., Mikulich, S. (2023) A revised prosocial behavior game: Testing association with psychopathic traits and the effects of moral elevation using a randomized clinical trial. *PLOS One*.
- Winters, D.E., Leopold, D.R., Sakai, J.T., Carter, R.M. (2023) Resting-state connectivity underlying cognitive control's association with perspective taking in callous-unemotional traits. *Psychiatry Research: Neuroimaging*. DOI: 10.1016/j.pscychresns.2023.111615
- **Winters, D.E.**, Massey, S., Sakai, J.T., (2023) Adolescent substance use outcomes in response to social consequences of use: the role of empathy. *Journal of Drug Issues*. DOI: 10.1177/00220426231159303
- *+# Richie-Halford, A., Cieslak, M., Ai, L., Caffarra, S., Covitz, S., Franco, A.R., Karipidis, I.I., Kruper, J., Milham, M., Avelar-Pereira, B., Roy, E., Sydnor, V.J., Yeatman, J.D., The Fibr Community Science Consortium (**Winters, D.E.**), Theodore D. Satterthwaite, Ariel Rokem (2022) An analysis-ready and quality-controlled resource for pediatric brain white-matter research. Scientific Data. DOI: 10.1038/s41597-022-01695-7
- + Winters, D.E., Hyde, L. W. (2022). Shared Functional Network Connectivity Between Callous-Unemotionality and both Cognitive and Affective Empathy. *Journal of Affective Disorders*. DOI: 10.1016/j.jad.2022.08.103
- **Winters, D.E.,** Sakai, J.T. (2022) Emotion identification for self and other associated with callous-unemotional traits and sex differences in early adolescents. *Child Psychiatry & Human Development*. DOI: 10.1007/s10578-022-01429-1
- **Winters, D.E.,** Pruitt P. J., Damoiseaux J.S, Sakai, J.T. (2021). Moderating effect of CU traits on functional connectivity underlying empathy in adolescents. *Psychiatry Research Neuroimaging*. DOI: 10.1016/j.pscychresns.2021.111429
- **Winters D.E.**, Sakai, J.T., Carston, R.M. (2021) Resting-state network topology characterizing callous-unemotional traits in adolescence. *Neuroimage: Clinical*. DOI: 10.1016/j.nicl.2021.102878
- **Winters, D.E.,** Susan M., Hopfer, C., Sakai, J.T. (2021). Moderating effects of CU traits on transdiagnostic symptoms association with suicidality in adolescents. *Child Psychiatry and Human Development*. DOI: 10.1007/s10578-021-01256-w
- **Winters D.E.**, Pruitt P. J., Fukui S., Cyders M.A., Pierce B. J., Lay K., Damoiseaux J.S. (2021). Indirect paths between functional connectivity underlying heterogenous depression symptoms in adolescents via cognitive and affective empathy. *Child Psychiatry and Human Development*. DOI: 10.1007/s10578-021-01242-2
- Winters, D.E., Pruit P.J., Fukui, S., Cyders, M. A., Pierce, B. J., Lay, K., Damoiseaux, J. S.

- (2021). Network functional connectivity underlying dissociable cognitive and affective components of empathy in adolescence. *Neuropsychologia*. DOI: 10.1016/j.neuropsychologia.2021.107832
- **Winters, D.E.**, Brandon-Friedman, R., Yepes, G., Hinkley, J. (2020). Systematic review and meta-analysis of socio-cognitive and socio-affective processes association with adolescent substance use. *Drug and Alcohol Dependence*. DOI: 10.1016/j.drugalcdep.2020.108479
- **Winters, D.E.**, Pierce, B. J., Imburgia, T. (2020) Concrete services usage on child placement stability: Propensity score matched effects. *Child and Youth Service Review*. DOI: 10.1016/j.childyouth.2020.105362
- **Winters, D.E.**, Wu, W., Fukui, S. (2020). Longitudinal effects of cognitive and affective empathy on adolescent substance use. *Substance Use & Misuse*, 1-7. DOI: 10.1080/10826084.2020.1717537
- Winters, D.E., Fukui, S., Leibenluft, E., Hulvershorn L.A., (2018). Improvements in Irritability with Open-Label Methylphenidate in Youth with Comorbid Attention Deficit/Hyperactivity Disorder and Disruptive Mood Dysregulation Disorder. *Journal of Child and Adolescent Psychopharmacology*, 28(5): 298-305.
- Beerbower, E., **Winters, D.E.**, Kondrat, D. (2018). Bio-psycho-social-spiritual needs of adolescents and young adults with life-threatening illnesses: Implications for social work practice. *Social Work in Health Care*, 1-17. DOI: 10.1080/00981389.2018.1430091
- Winters, D.E., Beerbower, E. (2017). Mindfulness and Meditation as an Adjunctive Treatment for Adolescents Involved in the Juvenile Justice System: Is Repairing the Brain and Nervous System Possible? *Social Work in Health Care*, 1-21. Doi:10.1080/00981389.2017.1316341

Published Book Chapters

Armstrong, E., **Winters, D.E.**, Jaggers, J. (2018). Mental Health in Prison Populations. Serving the Stigmatized: Working within the Incarcerated Environment. W.T. Church and D.W. Springer, Oxford University Press.

Technical Reports for the State of Indiana

Winters, D.E., Imburgia, T., Pierce, B. J. (2017, 2018, 2019, 2020). Concrete Services Spending and outcomes for youth. Indiana Department of Child Services Child Welfare Title IV-E Waiver Demonstration Project Extension: Final Report.

Unpublished

Under Review

- *+# Pettine W.W., **Winters D.E.,** Murray, J.D., Anticevic, A., Jacob, S. (under review). A tool for longitudinal assessment of individual differences in judgment calibration during category learning. Preprint DOI: https://doi.org/10.31234/osf.io/n32gy
- *+# Winters, D.E., Dugre J., Sakai, J.T., Carter, R.M. (under review). Executive function and underlying brain network distinctions for callous-unemotional traits and conduct problems in adolescents. Preprint DOI: https://doi.org/10.1101/2023.10.31.565009
- *+# Dugre J., Hopfer, C., **Winters, D.E.** (under review). The Dark Sides of the Brain: A Systematic Review and Meta-Analysis of Functional Neuroimaging Studies on Aggression. Preprint DOI: https://doi.org/10.31234/osf.io/4zafd
- Winters, D.E., Sakai, J.T. (under review). Prosocial Behavior Limitations Associated with

- Callous-Unemotional Traits are Moderated by Internalizing Symptoms.
- **Winters, D.E.**, Sakai, J.T. (under review) Callous-Unemotional Traits Association with Prosocial Behavior and the Mediating Role of Cognitive Control.

In preparation

- Winters, D.E., Schacht, J., Cognitive control and brain regions implicated at various stages of alcoholism.
- **Winters, D.E.**, Connectome-Based Data-Driven Subgroups Association with Theoretical Groups of Callous-Unemotional Traits and Low Prosocial Emotion Specifier
- *+ Winters, D.E., Kim, H., Leopold, D. R., Carlson, K., & Banich, M. Difference in Task-Based Functional Connectivity Under Higher Cognitive Demands Unique to Callous-Unemotional Traits.