

Kelsey Winkeler

GRADUATE STUDENT

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Education

Virginia Polytechnic Institute and State University

PSYCHOLOGY PHD STUDENT, CLINICAL SCIENCES CONCENTRATION

Blacksburg, VA

August 2021 - Present

- **Pearl Chiu & Brooks Casas Labs**

- Thesis: *Neural Substrates of Trust and Impact of Treatment in Veterans with PTSD.*

The College of Wooster

B.A. IN BIOLOGY

Wooster, OH

September 2013 - May 2017

- **U.S. Department of State Gilman Scholar**

- Thesis: *Circadian Rhythm-Gating of Salinity Stress-Induced Transcription Factor Expression in Solanum lycopersicum, and Implications in Sustainable Agriculture*

Clinical Experience

Chiu & King-Casas Lab

RESEARCH ASSESSMENT

Roanoke, VA

May 2022-Present

- Completed adolescent assessments for research, including:
- Kiddie Schedule for Affective Disorders and Schizophrenia- Lifetime and Present Edition (K-SADS-PL DSM-5)

Psychological Services Center at Virginia Tech

ADULT ASSESSMENT & THERAPY AND ADOLESCENT THERAPY

Blacksburg, VA

August 2021 - Present

- Performed comprehensive psychological assessments for adults
- Trained in: WAIS, WMS, WJ, ADIS-5, MINI, SCID, CAADID and ADI-R
- Provided outpatient therapy

Child Assessment Center at Virginia Tech

CHILD ASSESSMENT

Blacksburg, VA

January 2022 - Present

- Completed comprehensive psychological assessments for children and adolescents
- Trained in: WISC, WJ, ADIS-P/C, K-SADS P/C, ADI-R

Professional Experience

Lab Manager and Research Assistant II

THAYER SCHOOL OF ENGINEERING AT DARTMOUTH COLLEGE, HILL LAB

Hanover, NH

2018-2019

- *Aims: Using machine learning, determine patterns of volatile organic compounds in human breath.*

Undergraduate Research Assistant

NATURAL SCIENCES DEPARTMENT AT THE INTERNATIONAL CHRISTIAN UNIVERSITY, MIZOGUCHI LAB

Tokyo, Japan

June 2016 - May 2017

- *Aims: Understand the genetics of the interaction between the circadian clock and plant response timing.*

Undergraduate Research Assistant

BIOLOGY DEPARTMENT AT THE COLLEGE OF WOOSTER, SIROT LAB

Wooster, OH

September 2015 - May 2017

- *Aims: Understand the biological basis of animal behavior pre- and post-coitus.*

Publications

Kang, L., Kaur, J., **Winkeler, K.**, Kubiak, D. and Hill, J.E. (2023). How the volatile organic compounds emitted by corpse plant change through flowering. *Nature Scientific Reports*, 13:372. DOI: 10.1038/s41598-022-27108-8

Winkeler, K., and Bobak, C. (2022). Replicability of Differentially Expressed Genes Versus Biological Pathways Biomarkers in Diagnosing Sepsis. In *Proceedings of the 15th International Joint Conference on Biomedical Engineering Systems and Technologies - BIOINFORMATICS*, ISBN 978-989-758-552-4, 160-167. DOI: 10.5220/00109763000003123

Coyne, K., Mullen Davis, M., Mizoguchi, T., Hayama, R. 2019. Temporal restriction of salt inducibility in expression of salinity-stress related gene by the circadian clock in *Solanum lycopersicum*. *Plant Biotechnology*, 36: 195–200. DOI: 10.5511/plant-biotechnology.19.0703a

Presentations

* *presenting author*; + *mentored undergraduate*

INVITED TALKS

Spring 2022. *Neural Substrates of Trust in Post Traumatic Stress Disorder*. Invited talk: Fralin Biomedical Research Institute Faculty Retreat.

Spring 2017. *Circadian Rhythm Gating of Salinity Stress-Induced Transcription Factor Expression in Solanum lycopersicum, and Implication in Sustainable Agriculture*. Invited talk: Wooster Senior Research Symposium, Wooster, OH.

CONTRIBUTED PRESENTATIONS

Winkeler, Kelsey*, Sankarasubramanian, N., Cunningham, K., Marston, E. Hurd, L., Usala, J., Jameson, M., Frueh, C., Chiu, P., King-Casas, B. 2022. Treatment-Related Change in Trust in Post-Traumatic Stress Disorder (PTSD). Poster presentation: Precision Neuroscience 2022, Roanoke, VA.

Coyne, Kelsey*, Kubiak, D.⁺, Rees, C., Kang, L., Khan, M.S., Hill, J. 2019. Characterizing Volatile Molecules of the Corpse Flower. Poster presentation: Big Data in the Life Sciences, Hanover, NH.

Coyne, Kelsey*, Mullen Davis, M., Mizoguchi, T., Hayama, R. 2016. Circadian Rhythm Gating of Salinity Stress-Induced Transcription Factor Expression in *Solanum lycopersicum*, and Implication in Sustainable Agriculture. Poster presentation: Wooster Senior Research Symposium, Wooster, OH.

Coyne, Kelsey*, Mullen Davis, M., Hayama, R., Mizoguchi, T. 2016. Circadian rhythm gating of salinity stress response-implicated transcription factors in *Solanum lycopersicum*. Poster presentation: Japan Solanaceae Consortium, Tokyo, Japan.

Goyette, C.⁺, Hoffman, J.⁺, Kim, H.⁺, **Coyne, Kelsey**, Hill, J. 2019. The Smell of Fear. Poster presentation: Karen Wetterhahn Symposium, Hanover, NH.

Teaching Experience

TEACHING APPOINTMENTS

Biology and Environmental Science Teacher

MASCOMA VALLEY REGIONAL HIGH SCHOOL

Canaan, NH

2020-2021

Science Teacher

HARTFORD MEMORIAL MIDDLE SCHOOL

Hartford, VT

2019-2020

8th-Grade Science Teacher/Teach for America Corps Member

NEIGHBORHOOD HOUSE CHARTER SCHOOL

Boston, MA

2017-2018

8th Grade City Year Boston AmeriCorps Member

ROGERS MIDDLE SCHOOL

Boston, MA

2017-2018

Professional Development

RELEVANT PROFESSIONAL DEVELOPMENT

2022	Clinical Suicidology Certificate , Nat. Reg. of Health Service Psychologists	<i>Remote</i>
2022	Understanding Psychosis Certificate , Nat. Reg. of Health Service Psychologists	<i>Remote</i>
2022	Implicit Bias Training , National Institute of Health	<i>Remote</i>
2022	Culturally Responsive Cognitive Behavioral Therapy , Amber Calloway	<i>Remote</i>
2021	MRI Safety and Operator Training , Duy Phan	<i>Roanoke, VA</i>

OTHER PROFESSIONAL DEVELOPMENT

2020	Creating Trauma-informed Schools , Dr. Cassie Yackley	<i>Canaan, NH</i>
2018	Dartmouth College , Advanced Genetics (Audit)	<i>Hanover, NH</i>
2017 - 2018	Teach for America Massachusetts Summer Institute , Secondary Life Science Specialization	<i>Boston, MA</i>
2015	City Year Boston Mid-Year Summit , Civic fluency in education reform; building student relationships.	<i>Boston, MA</i>

Awards, Fellowships, & Grants

2021	Dean's Diversity Assistantship , Virginia Polytechnic Institute and State University
2017	Eli Segal AmeriCorps Education Award , Corporation for National and Community Service
2016	Benjamin A. Gilman Scholarship Award , United States Department of State Henry J. Copeland Scholarship Award , Copeland Fund for Independent Study Office of the Provost Scholarship , The College of Wooster
2015	Eli Segal AmeriCorps Education Award , Corporation for National and Community Service
2013	Dean's Scholarship , The College of Wooster Gardner C. Pope Award , Portland Country Club Union Plus Scholarship , United Service Workers Union College Club of Portland Award , College Club of Portland

Mentoring and Outreach

MENTORING

2022-2023.	High School Research Assistant Mentor , Fralin Biomedical Research Center	<i>Roanoke, VA</i>
2020-Pres.	Career and Grad School Mentor , College of Wooster	<i>Virtual</i>
2017-Pres.	Starling Martinez, Class of 2026 , Mentor, Embry Riddle Aeronautic University	<i>Boston, MA</i>
2015-Pres.	Carra Blain, Class of 2023 , Mentor, University of Miami	<i>Boston, MA</i>
2018-2019	Daniella Kubiak, Class of 2020 , Research Mentor, Dartmouth College	<i>Hanover, NH</i>
	Folasade Akinfe, Class of 2020 , Research Mentor, Dartmouth College	<i>Hanover, NH</i>

SERVICE AND OUTREACH

2022-Pres.	Human Neuroscience Graduate Student Congress , President & Founding Member	<i>Roanoke, VA</i>
2021-2022	Flip the Fair, Roanoke Public Library , Presenting Scientist	<i>Roanoke, VA</i>
2019-2020	Hartford Rock Climbing Team , Volunteer Coach	<i>Hartford, VT</i>
2018-2019	Upper Valley Humane Society , Volunteer	<i>Canaan, NH</i>
2017-2019	Minds Matter Boston , Mentor	<i>Boston, MA</i>
2014-2017	Wooster First Response Team , Volunteer Emergency Medical Responder	<i>Wooster, OH</i>
2017	Expanding Your Horizons (Women in STEM) , Mentor, 5th and 6th Grade	<i>Wooster, OH</i>
2016	KUMON English Immersion , Volunteer Teacher, 1st-5th Grade	<i>Tokyo, Japan</i>

PROFESSIONAL MEMBERSHIPS

- Society of Biological Psychiatry
- National Register of Health Service Psychologists
- Beta Beta Beta Biology Honors Society
- National Science Teachers Association
- National Association of Biology Teachers