

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 King-Casas Lab**
- Research: Neural Substrates of Trust and Disruption in Veterans with PTSD.
- Dean's Diversity Research Assistantship

The College of Wooster

B.A. IN BIOLOGY

Wooster, OH

September 2013 - May 2017

- **U.S. Department of State Gilman Scholar**
- Thesis Title: *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

- Trained in adolescent and adult psychopathology assessment for research, including:
- Kiddie Schedule for Affective Disorders and Schizophrenia- Lifetime and Present Edition (K-SADS-PL DSM-5)
- Structured Clinical Interview for DSM-5 (SCID-5)
- Completed 6 hours of direct contact

Child Assessment Center

CHILD ASSESSMENT

Blacksburg, VA

January 2022 - May 2022

- Trained in comprehensive child assessment, including:
- Anxiety and Related Disorders Interview Schedule for DSM-5, Parent Edition (ADIS-P)
- Autism Diagnostic Interview - Revised (ADI-R)
- Weschler Intelligence Scale for Children, fifth edition (WISC-V); Woodcock-Johnson IV Tests of Achievement (WJ-IV-ACH)
- Completed 12 direct contact hours in child autism assessment.

Psychological Services Center

ADULT ASSESSMENT

Blacksburg, VA

August 2021 - December 2022

- Trained in comprehensive adult assessment, including:
- Anxiety and Related Disorders Interview Schedule for DSM-5 (ADIS-5)
- Weschler Adult Intelligence Scale, fourth edition (WAIS-IV); Woodcock-Johnson IV Tests of Achievement (WJ-IV-ACH); and Weschler Memory Scale (WMS)
- Completed 16 direct contact hours in adult autism assessment.

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

Winkeler, Kelsey, 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: 10.5220/0010976300003123

Coyne, Kelsey, 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/plantbiotechnology.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

GRADUATE COURSEWORK IN EDUCATION

Trauma and Resilience in Education

CONCORDIA UNIVERSITY PORTLAND

Online

2019-2020

5-12 Life Science Certification Coursework

BOSTON UNIVERSITY

Boston, MA

2017-2018

Professional Development

RELEVANT PROFESSIONAL DEVELOPMENT

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| 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

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| 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 Learning/Development , Civic fluency in education reform; building student relationships. | <i>Boston, MA</i> |

Awards, Fellowships, & Grants

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| 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

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|------------|--|--------------------|
| 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

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| 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

Beta Beta Beta Biology Honors Society
National Science Teachers Association
National Association of Biology Teachers