

# Kelsey Winkeler

GRADUATE STUDENT IN CLINICAL PSYCHOLOGY

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## Education

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### Virginia Polytechnic Institute and State University

PSYCHOLOGY PHD STUDENT

Blacksburg, VA

December 2023 - Present

- **Clinical Sciences Concentration**
- Advisors: Brooks Casas & Pearl Chiu

### Virginia Polytechnic Institute and State University

M.S. IN PSYCHOLOGY

Blacksburg, VA

August 2021 - December 2023

- **Clinical Sciences Concentration**
- Advisors: Brooks Casas & Pearl Chiu
- Dean's Diversity Assistantship
- Thesis: Mechanisms of social dysfunction and treatment-related change in Veterans with posttraumatic stress disorder (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*

## Research

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### Neural substrates of social interaction in PTSD

Fralin Biomed. Res. Inst.

CHIU & CASAS LABS

Sept. 2021 - Present

- **Focus:** Symptom and treatment-related behavioral change in Veterans with posttraumatic stress symptoms
- Impact of PTSD on mechanisms of interpersonal violence in OEF, OIF, and OND Veterans
- Impact of posttraumatic stress symptoms on constructs necessary for social interaction and cooperation in OEF, OIF, and OND Veterans.
- Impact of posttraumatic stress symptoms on affect manipulated using international affective picture system (IAPS) before and after prolonged exposure.
- Using imaging to understand alterations in neural substrates of social decision-making in Veterans with varied posttraumatic stress symptoms and before/after residential treatment for PTSD.

### Using Volatile Organic Compounds (VOCs) in Biomedical Research

Dartmouth College

HILL LAB

August 2018 - August 2019

- Post-baccalaureate research assistant and lab manager
- Characterizing pathway-based and pathway-naive genetic biomarkers in sepsis
- Time-differential emission of volatile organic compounds in the corpse plant
- Measuring tuberculosis vaccine administration method efficacy using VOC-based diagnostics
- VOC-based social transmission of fear.

### Circadian rhythm-gated stress response in tomato plants.

Intl. Christian University

MIZOGUCHI LAB

August 2016 - May 2017

- Undergraduate senior thesis.
- Investigated differential transcription response to salinity stress
- Worked in interdisciplinary lab with peers and supervisors from multiple countries (Japan, Korea, Germany, etc.)

### Characterizing social- and reproduction-linked behavioral changes

College of Wooster

SIROT LAB

August 2015 - May 2017

- Undergraduate Research Assistant
- Investigated social learning in the South American cave cockroach
- Investigated differential protein expression and behavior in female mosquitoes post-coitus.

## Publications

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\*equal contribution

### IN PREPARATION

Cui, Z., **Winkeler, K.\***, Bansal, V\*, Wang, J., Frueh, B.C., Williams, W., Graham, D.P., Chiu, P.H., and Casas, B. (in preparation). Alterations in social conflict in combat-exposed Veterans.

**Winkeler, K.\***, Aimone, J. A\*, Wang, J., Frueh, B.C., Williams, W., Graham, D.P., Chiu, P.H., and Casas, B. (in preparation). Neural substrates of social dysfunction and treatment-related change in Veterans with posttraumatic stress disorder (PTSD).

### PUBLISHED

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

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\* 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.

## Clinical Experience

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### **Carilion Childrens Hospital**

*Roanoke, VA*

#### **CLINICAL EXTERN**

*February 2024 - Present*

- Supervisor: Tara Mitchell, LCP; Lori Dudley, LCP
- Developed Carilion Childrens- Virginia Tech PCIT partnership.
- Completed 40 hours of training in PCIT
- Provided PCIT to families with children 2-7 and CBT to children 5-18.
- Co-lead relationship skills groups.

### **Psychological Services Center at Virginia Tech**

*Blacksburg, VA*

#### **MASTERS CLINICIAN**

*August 2024-May 2025*

- Supervisor: Chloe Hudson, LCP
- 2024-2025 Peer Supervisor, DBT-A

### **Boston Child Study Center, Portland**

*Portland, ME*

#### **EXTERN IN DBT AND PCIT**

*July 2023-September 2023*

- Supervisor: Michael Hollander, LCP
- Co-Lead DBT Parent Skills and Adolescent Skills Groups with Dr. Evan Michel weekly
- Assisted with intake interviews with Dr. Ryan Madigan and Dr. Michael Hollander biweekly
- Assisted with PCIT-SM and observed PCIT-Calm sessions weekly
- Assisted with case formulation and treatment planning; attended weekly consultation.

### **Psychological Services Center at Virginia Tech**

*Blacksburg, VA*

#### **STUDENT CLINICIAN**

*August 2022 - May 2023*

- Supervisor: Adrienne Means-Christensen, LCP
- Worked as a clinician for adolescents and young adults; provided non-manualized and manualized CBT and DBT-based treatments.
- Co-lead teen mental health skills group.

### **Chiu & King-Casas Lab**

*Roanoke, VA*

#### **RESEARCH ASSESSMENT**

*May 2022-September 2022*

- Supervisor: Matt Caton, MPS; Nanda Sankarasubramanian, MA
- 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**

*Blacksburg, VA*

#### **ADULT ASSESSMENT**

*August 2021 - May 2023*

- Supervisor: Lee Cooper, LCP
- Performed five comprehensive psychological assessments for late adolescents and one for an adult.
- Measures included: WAIS, WMS, WJ, ADIS-5, MINI, SCID, CAADID, MMPI, and ADI-R

### **Child Assessment Center at Virginia Tech**

*Blacksburg, VA*

#### **CHILD ASSESSMENT**

*January 2022 - December 2022*

- Supervisor: Rosanna Breaux-Boljonis, LCP
- Completed one comprehensive psychological assessment for a child and one for an early adolescent.
- Completed one assist for a child and one assist for an adolescent.
- Measures included: WISC, WJ, ADIS-P/C, K-SADS P/C, ADI-R

## Consulting

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### **Virginia Tech Cook Counseling Center**

*Blacksburg, VA*

#### **SUPERVISOR: ADRIENNE MEANS-CHRISTENSEN, LEE COOPER**

*May 2023*

- Working with College Students with ADHD: Skills from Mastering Your Adult ADHD
- Co-lead with Samuel Browning

## Professional Experience

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### **Biology and Environmental Science Teacher**

MASCOMA VALLEY REGIONAL HIGH SCHOOL

*Canaan, NH*

*2020-2021*

### **Science Teacher**

HARTFORD MEMORIAL MIDDLE SCHOOL

*Hartford, VT*

*2019-2020*

### **Lab Manager and Research Assistant II**

THAYER SCHOOL OF ENGINEERING AT DARTMOUTH COLLEGE, HILL LAB

*Hanover, NH*

*2018-2019*

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

NEIGHBORHOOD HOUSE CHARTER SCHOOL

*Boston, MA*

*2017-2018*

### **7th Grade Summer School Teaching Assistant**

McCORMACK MIDDLE SCHOOL

*Boston, MA*

*2015-2015*

### **8th Grade City Year Boston AmeriCorps Member**

ROGERS MIDDLE SCHOOL

*Boston, MA*

*2014-2015*

## Professional Development

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### RELEVANT PROFESSIONAL DEVELOPMENT

2024	<b>Parent-Child Interaction Therapy Certification</b> , PCIT International	<i>Roanoke, VA</i>
2024	<b>Parent-Child Interaction Therapy 40-Hour Training</b> , Carilion Clinic	<i>Roanoke, VA</i>
2024	<b>Parent-Child Interaction Therapy for Traumatized Children 10-Hour Training</b> , UC Davis	<i>Remote</i>
2023	<b>Dialectical Behavioral Therapy 4-Day Foundational Training</b> , Dr. Michael Hollander & Dr. Lyndsey Moran	<i>Portland, ME</i>

### OTHER PROFESSIONAL DEVELOPMENT

2024	<b>Integrated Care: Core Competencies for Behavioral Health Professionals</b> , Nat. Reg. of Health Service Psychologists	<i>Webinar</i>
2024	<b>Integrated Care: Core Competencies for Behavioral Health Professionals</b> , Nat. Reg. of Health Service Psychologists	<i>Webinar</i>
2024	<b>Integrated Care: Core Competencies for Behavioral Health Professionals</b> , Nat. Reg. of Health Service Psychologists	<i>Webinar</i>
2024	<b>Integrated Care: Core Competencies for Behavioral Health Professionals</b> , Nat. Reg. of Health Service Psychologists	<i>Webinar</i>
2024	<b>National Register Associate Certificate Program: Integrated Care Training</b> , Nat. Reg. of Health Service Psychologists	<i>Webinar</i>
2023	<b>Creating a Culture of Prevention Workshop</b> , Hokie Wellness at Virginia Tech	<i>Blacksburg, VA</i>
2023	<b>3-day fMRI Acquisition and Analysis Workshop</b> , Mind Research Network	<i>Remote</i>
2022	<b>Clinical Suicidology Certificate</b> , Nat. Reg. of Health Service Psychologists	<i>Remote</i>
2022	<b>Understanding Psychosis Certificate</b> , Nat. Reg. of Health Service Psychologists	<i>Remote</i>
2022	<b>Culturally Responsive Cognitive Behavioral Therapy</b> , Amber Calloway	<i>Remote</i>
2022	<b>Implicit Bias Training</b> , National Institute of Health	<i>Remote</i>
2021	<b>MRI Safety and Operator Training</b> , Duy Phan	<i>Roanoke, VA</i>
2020	<b>Creating Trauma-informed Schools</b> , Dr. Cassie Yackley	<i>Canaan, NH</i>
2018	<b>Dartmouth College, Advanced Genetics (Audit)</b>	<i>Hanover, NH</i>
2017 - 2018	<b>Teach for America Massachusetts Summer Institute</b> , Secondary Life Science Specialization	<i>Boston, MA</i>
2015	<b>City Year Boston Mid-Year Summit</b> , 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

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### MENTORING

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

### SERVICE AND OUTREACH

2022-Pres.	<b>Human Neuroscience Graduate Student Congress</b> , President & Founding Member	<i>Roanoke, VA</i>
2023-Pres.	<b>First Generation College Student Association</b> , Member at Large	<i>Blacksburg, VA</i>
2021-2022	<b>Flip the Fair, Roanoke Public Library</b> , Presenting Scientist	<i>Roanoke, VA</i>
2019-2020	<b>Hartford Rock Climbing Team</b> , Volunteer Coach	<i>Hartford, VT</i>
2018-2019	<b>Upper Valley Humane Society</b> , Volunteer	<i>Canaan, NH</i>
2017-2019	<b>Minds Matter Boston</b> , Mentor	<i>Boston, MA</i>
2014-2017	<b>Wooster First Response Team</b> , Volunteer Emergency Medical Responder	<i>Wooster, OH</i>
2017	<b>Expanding Your Horizons (Women in STEM)</b> , Mentor, 5th and 6th Grade	<i>Wooster, OH</i>
2016	<b>KUMON English Immersion</b> , Volunteer Teacher, 1st-5th Grade	<i>Tokyo, Japan</i>

### PROFESSIONAL MEMBERSHIPS

- American Psychological Association Division 53
- 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