

JESSICA L. AREND

she/they • arend103@umn.edu

EDUCATION

Doctor of Philosophy in Clinical Science and Psychopathology Research University of Minnesota – Twin Cities, Minneapolis, MN GPA: 4.00	2022 – current
Bachelor of Arts in Psychology Bethel University, Saint Paul, MN GPA: 3.90; Major GPA: 3.82	2014 – 2017

HONORS, SCHOLARSHIPS, AND GRANTS

Tri-Psychology Graduate Diversity Fund, University of Minnesota	2023
Diversity in Psychology Program, University of Minnesota	2021
Pietas Honors Program, Bethel University	2017
Webster C. Muck Award, Bethel University	2017
Presidential Scholarship, Bethel University	2013-2017
Dean's List, Bethel University	2014-2017

PEER-REVIEWED PUBLICATIONS

- Demro, C., Shen, C., Hendrickson, T. J., **Arend, J. L.**, Disner, S. G., & Sponheim, S. R. (2022). Advanced Brain-Age in Psychotic Psychopathology: Evidence for Transdiagnostic Neurodevelopmental Origins. *Frontiers in Aging Neuroscience*, 14, 872867. <https://doi.org/10.3389/fnagi.2022.872867>.
- Zhou, Y., **Arend, J.**, Mufson, L., & Gunlicks-Stoessel, M. (2021). Change in dysfunctional attitudes and attachment in interpersonal psychotherapy for depressed adolescents. *Psychotherapy Research*, 31(2), 258–266. <https://doi.org/10.1080/10503307.2020.1756513>
- Reid, B. M., Harbin, M. M., **Arend, J. L.**, Kelly, A. S., Dengel, D. R., & Gunnar, M. R. (2018). Early life adversity with height stunting is associated with cardiometabolic risk in adolescents independent of body mass index. *The Journal of Pediatrics*, 202, 143-149. <https://doi.org/10.1016/j.jpeds.2018.06.047>

INVITED TALKS

- Arend, J.L.**, Lissek, S. (Nov 2022). *Schizophrenia and other psychotic disorders*. Guest lecture for Introduction to Psychopathology class, University of Minnesota.
- Arend, J.L.**, Dailey-Krempel, B., Morency, M., Volz, S. (Nov 2022). *Invisible influences: What affects our experience of the world?* Guest lecture for Advanced Placement Psychology class, Minnehaha Academy.
- Black, D.A., Hoseingholizade, S., Perez-Tamayo, G.M., **Arend, J.L.**, Rea-Sandin, G.U., Ivory, S.L., Braverman, J.P., (Mar 2022). *#NextGen mentee stories: Sharing our research experience*. Panel discussion for Next Gen Psychology Scholar Program, University of Minnesota.

PAPER PRESENTATIONS

- Arend, J. L.**, & Lancaster, S. L. (Apr 2017). *Combat experiences and intimate partner violence: The mediating role of moral emotions*. Paper presentation at the Minnesota Undergraduate Psychology Conference, Northfield, MN.

POSTER PRESENTATIONS

1. **Arend, J. L.**, Kwashie, A., Demro, C., Enevold, K., Freedman, M., Loder, A., Pandit, S., MacDonald, A. W. (Sep 2023). Conflict monitoring in early psychosis with an AX task variant. Poster presented at the Society for Research in Psychopathology, St. Louis, MO.
2. Demro, C., Rawls, E., Mueller, B. A., Chen, C. S., Grissom, N. M., Ebitz, R. B., Teich, C. D., **Arend, J. L.**, Enevold, K., Freedman, M., Loder, A., Pandit, S., Sponheim, S. R., MacDonald, A. W. (Sep 2023). Computationally informed reward prediction error signaling during simultaneous EEG-fMRI in early psychosis. Poster presentation at the Society for Research in Psychopathology, St. Louis, MO.
3. Demro, C., Chen, C. S., Knep, E., Mueller, B. A., **Arend, J. L.**, Ebitz, R. B., Grissom, N. M., MacDonald, A. W. (May 2023). *Behavioral, computational, and neural indices of state learning in early psychotic psychopathology*. Poster presentation at the Schizophrenia International Research Society, Toronto, Canada.
4. **Arend, J. L.**, Kwashie, A., Demro, C., Mulder, C., Schallmo, M. P., MacDonald, A. W. (April 2023). *Cognitive control in early psychosis: Behavioral and neural correlates of the Translational Orientation Pattern Expectancy (TOPX) task*. Poster presentation at the Society of Biological Psychiatry, San Diego, CA.
5. **Arend, J. L.**, Demro, C., Kwashie, A., & MacDonald, A. W. III (Sep 2022). *State estimation and learning in translational AX and Bandit task variants*. Poster presentation at the Society for Research in Psychopathology, Philadelphia, PA.
6. Kwashie, A., Demro, C., Shen, C., Rawls, E., Mueller, B., **Arend, J. L.**, Toker, Y., Teich, C., Zhang, J., MacDonald, A.W. (Sep 2022). *Behavioral and neural correlates of the Translational Orientation Pattern Expectancy Task (TOPX): A novel modification of the AX expectancy paradigm*. Poster presentation at the Society for Research in Psychopathology, Philadelphia, PA.
7. **Arend, J. L.**, Demro, C., & Sponheim, S. R. (Sep 2021). *Examining the nature of impaired set-shifting in psychotic psychopathology*. Poster presentation at the Society for Research in Psychopathology, virtual meeting.
8. Zhou, Y., **Arend, J.**, & Gunlicks-Stoessel, M. L. (Aug 2019). *The relationship between change in dysfunctional attitudes and attachment style in interpersonal psychotherapy for depressed adolescents*. Poster presentation at the American Psychological Association, Chicago, IL.
9. **Arend, J. L.**, VanZomeren, A. A., Gunlicks-Stoessel, M. L., Klimes-Dougan, B., Hastings, P. D., & Zahn-Waxler, C. (Mar 2019). *Sex, gender role, and cortisol reactivity in the prediction of adolescent internalizing and externalizing behaviors*. Poster presentation at the Society for Research in Child Development, Baltimore, MD.
10. **Arend, J. L.**, Arend, L., & Johnson, A. C. (Apr 2016). *Exploration, exploitation and inference in video games: Testing the matching law for reinforcement*. Poster presentation at the Minnesota Undergraduate Psychology Conference, Minneapolis, MN.

RESEARCH EXPERIENCE

Graduate Research Assistant, University of Minnesota, Department of Psychology Sep 2022 – current
 Supervisor: Angus MacDonald, Ph.D

Observational study examining state representation in early psychosis. Manage online MTurk data collection. Conduct behavioral analyses of task data in R. Conduct structural and functional MRI analyses in FSL.

Research Coordinator, University of Minnesota, Department of Psychology Feb 2021 – Aug 2022
 Supervisor: Angus MacDonald, Ph.D.

Observational study examining state representation in early psychosis. Assisted with MRI scans and EEG tests. Assisted with piloting behavioral tasks. Conducted clinical interviews. Managed REDCap database.

Research Coordinator, University of Minnesota, Department of Psychiatry Oct 2020 – Sep 2021
 Supervisor: Scott Sponheim, Ph.D., L.P.

Family study examining functional connectivity and aberrant perception in psychosis. Oversaw regulatory management. Trained staff on protocols and assessments. Consulted on diagnostic consensus. Developed and implemented COVID safety protocols.

- Research Assistant, University of Minnesota, Department of Psychiatry** Jun 2019 – Sep 2021
Supervisor: Scott Sponheim, Ph.D., L.P.
Family study examining functional connectivity and aberrant perception in psychosis. Recruited and scheduled participants aged 18-65. Conducted clinical interviews, neuropsychological assessments. and perceptual/motor tasks. Collected and processed blood samples. Assisted with fMRI data processing in AFNI and SUMA.
- Clinical Research Coordinator, University of Minnesota, Department of Psychiatry** Aug 2017 – Jun 2019
Supervisor: Meredith Gunlicks-Stoessel, Ph.D., L.P.
Clinical SMART trial implementing a novel algorithm for assessment and treatment of adolescent depression. Screened and scheduled participants aged 12-18. Collected ECG during behavioral task. Collected salivary and urine samples. Supervised undergraduate volunteers. Oversaw regulatory management.
- Research Coordinator, University of Minnesota, Institute of Child Development** May – Aug 2017
Supervisor: Megan Gunnar, Ph.D.
Pilot study examining development and metabolic risk in post-institutionalized adopted youth. Recruited and scheduled participants aged 8-17. Conducted study visits and managed Qualtrics and SPSS database.
- Research Volunteer, University of Minnesota, Institute of Child Development** Jan – Aug 2017
Supervisor: Megan Gunnar, Ph.D.
Study of new mothers' health, emotions, and stress. Entered and cleaned data; wrote reverse-score formulas and calculations in Excel.
Longitudinal observational study examining pubertal changes in post-institutionalized adopted youth. Coded qualitative interviews for reliability and consensus.
- Research Volunteer, University of Minnesota, Institute of Child Development** Jun – Aug 2017
Supervisor: Ann Masten, Ph.D.
Observational study of risk and resilience in families experiencing homelessness. Collected data at local homeless shelter. Administered questionnaires and behavioral tasks to parents and their children aged 4-6.
- Research Assistant, Bethel University, Department of Psychology** Sep 2016 – May 2017
Supervisor: Steven Lancaster, Ph.D.
Pietas Honors Program capstone project. Conducted study in MTurk to examine moral emotions (shame, anger) as mediators between combat-related trauma and intimate partner violence perpetration.
- Research Assistant, Bethel University, Department of Psychology** Jan – May 2016
Supervisors: Steven Lancaster, Ph.D. and Adam Johnson, Ph.D.
Independent student research. Conducted literature review of delay discounting in hoarding disorder. Conducted analyses to examine matching law and reinforcement in video game experimentation among a sample of undergraduates.
- Undergraduate Researcher, Oxford University, Dept of Experimental Psychology** Sep – Dec 2015
Supervisor: Miguel Farias, Ph.D.
Scholars' Semester in Oxford capstone project. Conducted literature review of transdiagnostic impairments of theory of mind in antisocial personality disorder and autism spectrum disorder.

RELEVANT EXPERIENCE

- Graduate Teaching Assistant, University of Minnesota, Department of Psychology** Sep 2022 – Dec 2022
Assisted in undergraduate Introduction to Abnormal Psychology course. Taught a guest lecture. Graded exams and research essays. Aided students with accommodations.
- Teaching Assistant, Bethel University, Honors Program and Department of Psychology** Aug 2014 – May 2017

Department of Psychology (3 semesters): Assisted in Principles of Counseling & Psychotherapy and History of Psychology courses. Graded exams and led class during instructor absences.

Pietas Honors Program (3 semesters): Assisted in Systems Thinking honors course. Graded exams. Aided instructor in developing class activities and streamlining syllabus.

Humanities Program (4 semesters): Assisted in an interdisciplinary general education program. Provided individual tutoring for students. Aided students with accommodations. Led exam review sessions and educational trips to museums.

English Language Tutor, *Open Door Learning Center, Literacy Minnesota* Jun 2017 – Dec 2017,
Worked with adult language learners to build English language fluency. Taught Sep 2018 – Jun 2019
reading, writing, grammar, and vocabulary.

Editor/Social Media Manager, *Mustard Magazine* Jan – Sep 2017
Selected and edited submissions for an independent student publication. Managed social media content and reader inquiries.

ADDITIONAL SKILLS

Data collection & analysis software:

- Proficient with R, SPSS, REDCap, Qualtrics, MTurk, Microsoft Suite
- Experience with FSL, AFNI, Mplus, AcqKnowledge

Biological/physiological data collection:

- Phlebotomy (whole blood, serum, RNA)
- Salivary cortisol and DNA sample collection
- Electrocardiogram (3-lead Einthoven's triangle)
- MRI second-chair operator

Diagnostic and neuropsychological assessments:

- Diagnostic and clinical assessments:
 - SCID-I; MINI-7.0.2
 - C-SSRS; BPRS; SANS-SAPS; SIS
 - Minnesota Multiphasic Personality Inventory (MMPI-3)
- Neuropsychological assessments:
 - WAIS-IV; WISC-V; WMS-IV
 - Brief Assessment of Cognition in Schizophrenia (BACS)
 - NIH Toolbox Motor battery
 - Test My Brain digital battery
 - Posit Science Brain HQ Processing Speed battery

Organizational and administrative platforms:

- Website-building in Drupal, Snappages, Homestead, Weebly, and Blogger
- Regulatory management in Ethos, OnCore, Florence, and OnQ Portal

COMMUNITY AND UNIVERSITY SERVICE

UMN Diversity in Psychology Support Program [mentor], 2023-current

Next Generation Psychology Scholars Program [mentor], 2022-current

UMN Department of Psychology CSPR Diversity, Equity, and Inclusion Committee [member], 2022-current

UMN Tri-Psychology Queer Affinity Group [chair], 2023-current

Next Generation Psychology Scholars Program [mentee], 2021-2022

UMN Department of Psychiatry Diversity & Inclusion Committee [member], 2018-2021

UMN Department of Psychiatry Advocacy Committee [member], 2019-2021

Society for Research in Psychopathology [member], 2019-current

- Student Contributor, Publications Committee, 2021