

CURRICULUM VITAE

Allison S. Langer
Temple University
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EDUCATION

- 2021 – Present **Temple University**
Doctoral Student in Developmental Psychology
Concentrations: Developmental Psychopathology, Quantitative Methods
Advisors: Peter Marshall, Ph.D. & Jason Chein, Ph.D.
- 2013 – 2017 **University of Pennsylvania—Bachelor of Arts with Distinction**
Major: Biological Basis of Behavior, Minor: Psychology, *Magna Cum Laude*
Faculty Mentor – Robert Schultz, Ph.D.
- Fall 2015 **The International School at the University of Haifa—Study Abroad**
Honors Program in Psychology
Faculty Mentor – Simone Shamay-Tsoory, Ph.D.

GRANTS & FELLOWSHIPS

- 2022 – 2026 National Science Foundation Graduate Research Fellowship (\$144,000)
2021 – 2025 University Fellowship, Temple University (\$64,000)
2017 McMorris Summer Internship in Autism Research (\$3,750)
2016 McMorris Family Foundation Grant for Undergraduate Thesis Research (\$1,000)
2015 Masa Israel Scholarship, University of Haifa (\$1,000)

HONORS & SERVICE

- 2023 – Present *Temple University Psychology Colloquium Committee*, member
2021 *NSF Graduate Research Fellowship Program*, Honorable Mention
2021 – Present *Psychology Graduate Students for Inclusivity (PGSI)*, member
2017 – Present *Psi Chi International Honors Society in Psychology*, member
2016 – Present *Nu Rho Psi National Honors Society in Neuroscience*, member
2015 – 2017 *Dean's List*, University of Pennsylvania

WORKS IN PREPARATION

Langer, A., Martinez, S., Marshall, J. P., Chein, J. (Accepted, July 2025). *Children's Susceptibility to Content Generated by Artificial Intelligence*. [Poster Presentation]. Digital Media and Developing Minds International Scientific Congress, Washington D.C., USA.

Langer, A., Wilson, J. R., Howard, L., & Marshall, P. J. (under review). The Influence of Child Characteristics on Children's Behavior towards a Social Robot Versus a Human.

Langer, A. (in preparation). Scoping Review of Evidence from EEG for Altered Brain Responses among Technology Users from Infancy to Young Adulthood.

PEER REVIEWED PUBLICATIONS

Langer, A., Marshall, P. J., & Levy-Tzedek, S. (2023). Ethical Considerations in Child-Robot Interactions. *Neuroscience & Biobehavioral Reviews*, 105230.

Yang, Y., **Langer, A.**, Howard, L., Marshall, P. J., & Wilson, J. R. (2023). Towards an Ontology for Generating Behaviors for Socially Assistive Robots Helping Young Children. *Proceedings of the Association for the Advancement of Artificial Intelligence Symposium Series* (Vol. 2, No. 1, pp. 213-218).

Taylor, S. C., Gehringer, B. N., Dow, H. C., **Langer, A.**, Rawot, E., Smernoff, Z., Steeman, S., Almasy, L., Rader, D. J., Bučan, M., & Brodtkin, E. S. (2022). Contrasting Views of Autism Spectrum Traits in Adults, Especially in Self-Reports vs. Informant-Reports for Women High in Autism Spectrum Traits. *Journal of Autism and Developmental Disorders*, 1–13.

Elkhatib Smidt, S. D., Ghorai, A., Taylor, S. C., Gehringer, B. N., Dow, H. C., **Langer, A.**, Rawot, E., Zhang, J., Mitchell, J. A., Rader, D. J., Almasy, L., Brodtkin, E. S., & Bučan, M. (2022). The relationship between autism spectrum and sleep–wake traits. *Autism Research*, 15(4), 641-652.

Smidt, S. E., Ghorai, A., Gehringer, B., Dow, H., Smernoff, Z., Taylor, S., **Langer, A.**, Rawot, E., Zhang, J., Rader, D. J., Almasy, L., Brodtkin, E. S., & Bucan, M. (2021). 768 The Relationship Between Circadian Rhythm and Autism Spectrum Disorder Traits and Executive Function Across the Life Span. *Sleep*, 44 (Supplement_2), A299-A299.

Taylor, S. C., Steeman, S., Gehringer, B. N., Dow, H. C., **Langer, A.**, Rawot, E., Perez, L., Goodman, M., Smernoff, Z., Grewal, M., Eshraghi, O., Pallathra, A. A., Oksas, C., Mendez, M., Gur, R. C., Rader, D. J., Bucan, M., Almasy, L., & Brodtkin, E. S. (2021). Heritability of quantitative autism spectrum traits in adults: A family-based study. *Autism Research*, 14(8), 1543-1553.

Langer, A., Levy-Tzedek, S. (2021). Emerging Roles for Social Robots in Rehabilitation: Current Directions. *J. Human Robot Interaction*. 10, 4, Article 30 (July 2021).

Langer, A., Levy-Tzedek S. (2020). Priming and Timing in Human-Robot Interactions. In: Noceti N., Sciutti A., Rea F. (eds) *Modelling Human Motion*. Springer, Cham.

Langer, A., Feingold-Polak R., Mueller O., Kellmeyer P., Levy-Tzedek S. (2019). Trust in Socially Assistive Robots: Considerations for use in Neurological Rehabilitation. *Neuroscience & Biobehavioral Reviews*, 2019: 104, 231-239. PMID: 31348963

Budman I., Meiri G., Ilan M., Faroy M., **Langer, A.**, Reboh D., Michaelovski A., Flusser H., Menashe I., Donchin O., Dinstein I. (2019). Quantifying the social symptoms of autism using motion capture. *Scientific Reports*, 2019, 9: 7712.

PRESENTATIONS & WORKSHOPS

Langer, A., & Marshall, P. J. (April, 2024). *Examining Teachers' Opinions on the Potential for Using Social Robots in Philadelphia Public Schools* [Talk]. American Educational Research Association, Philadelphia, PA, USA.

Howard, L., Wilson, J., **Langer, A.**, Marshall, P.J. (March, 2024). *Draw a Robot Task: The Influence of Children's Age and Drawings on Robot Interactions* [Paper presentation]. IEEE Ro-Man, Pasadena, CA, USA.

Langer, A., Klugman, J. (October, 2023). *Using Hierarchical Linear Modeling to Examine Financial Stress Among Mothers in the Baby's First Years Study* [Poster Presentation]. Society for the Study of Human Development, Philadelphia, PA, USA.

Yang, Y., **Langer, A.**, Howard, L., Marshall, P. J., & Wilson, J. R. (October, 2023). *Towards An Ontology for Generating Behaviors for Socially Assistive Robots Helping Young Children* [Paper Presentation; awarded Best Paper]. Artificial Intelligence for Human-Robot Interaction, Arlington, VA, USA.

Langer, A. (July, 2023). *Career & Educational Journey* [Invited Talk]. Students and Trainees in Autism Research Speaker Series Summer 2023, Center for Autism Research at the Children's Hospital of Philadelphia, Philadelphia, Pennsylvania.

Langer, A. (July, 2023). *Data visualization using R* [Invited Workshop]. Undergraduate Summer Research Program, Hackman Scholars, 2023. Franklin & Marshall College, Lancaster, Pennsylvania.

Langer, A., Levy-Tzedek, S. (March, 2023). *Emerging Roles for Social Robots in Rehabilitation: Current Directions* [Invited Talk]. ACM/IEEE International Conference on Human-Robot Interaction, Association for Computing Machinery, Stockholm, Sweden.

Elkhatib Smidt, S., Ghorai, A., Gehringer, B., Dow, H., Smernoff, Z., Taylor, S., Rawot, E., **Langer, A.**, Zhang, J., Rader, D., Almasy, L., Brodtkin, E., & Bucan, M. (May, 2021). *The Relationship Between Circadian Rhythm and Autism Spectrum Disorder Traits and Executive Function across the Life Span* [Virtual Poster Presentation]. SLEEP 2021.

S. C. Taylor, Z. L. Smernoff, B. N. Gehringer, H. C. Dow, **A. Langer**, E. Rawot, S. Steeman, O. Eshraghi, L. Almasy, D. J. Rader, M. Bucan, R. Barzilay, and E. S. Brodtkin. (May, 2021). *Levels of Autism Spectrum Traits Are Inversely Correlated with Psychological Resilience Factors during the COVID-19 Pandemic* [Virtual Poster Presentation]. International Society for Autism Research (INSAR).

J. Zhang, A. Ghorai, S. C. Taylor, H. C. Dow, B. N. Gehringer, **A. Langer**, E. Rawot, L. S. Perez, M. H. Goodman A., A. Pallathra, S. D. Elkhatib Smidt, D. J. Rader, L. Almasy, E. S. Brodtkin and M. Bucan. (May, 2021). *The Genetic Characterization of Proband's with Autism Spectrum Disorder and Their Extended Family Members* [Virtual Poster Presentation]. International Society for Autism Research (INSAR).

Taylor, S., Gehringer, B., Dow, H., **Langer, A.**, Rawot, E., Perez, L., Pallathra, A., Grewal, M., Smernoff, Z., Steeman, S., Eshraghi, O., Almasy, L., Rader, D., Bucan, M., & Brodtkin, E. (June, 2020). *Autistic Adults' Views of Their Own Social and Executive Functioning Do Not Correlate with Informants' Views of Them* [Virtual Poster Presentation]. International Society for Autism Research (INSAR).

Zhang, J., Ghorai, A., Taylor, S., Gehringer, B., Dow, H., **Langer, A.**, Rawot, E., Perez, L., M. Goodman, M., Pallathra, A., Elkhatib Smidt, S., Rader, D., Almasy, L., Brodtkin, E., & Bucan, M. (June, 2020). *Genetic Architecture of Autism Spectrum Disorder without Intellectual Disability* [Virtual Poster Presentation]. International Society for Autism Research (INSAR).

Langer, A., Bartley, K., Ferguson, E., Pandey, J., Schultz, R.T. (May, 2021). *Motor Synchrony in Adolescents with Autism Spectrum Disorder: A Feasibility Study on the Use of a Novel Dance Game Intervention* [Poster & Oral Defense]. University of Pennsylvania Department of Biological Basis of Behavior Undergraduate Research Symposium, Philadelphia, PA.

RESEARCH EXPERIENCE

Graduate Research Fellow Collaborator | PI: Jason Chein, Ph.D.
The Control and Adaptive Behavior Lab
Temple University
Philadelphia, PA

January 2024 – Present

Graduate Research Fellow | PI: Peter Marshall, Ph.D. August 2021 – Present
The Developmental Science Lab
Temple University
Philadelphia, PA

Clinical Research Coordinator | PI: Dr. Edward Brodtkin, M.D. August 2019 – July 2021
The Autism Spectrum Program of Excellence
Perelman School of Medicine
University of Pennsylvania
Philadelphia, PA

Research Assistant | PI: Shelly Levy-Tzedek, Ph.D. October 2018 – August 2019
The Cognition, Aging, and Rehabilitation Lab
Ben-Gurion University of the Negev
Beer Sheva, Israel

Research Assistant | PI: Ilan Dinstein, Ph.D. October 2017 – May 2018
Dinstein Neuroimaging Lab
Ben-Gurion University of the Negev
Beer Sheva, Israel

McMorris Summer Intern | PI: Robert Schultz, Ph.D. Summer 2017
Center for Autism Research
Children's Hospital of Philadelphia
Philadelphia, PA
Mentored by Robert T. Schultz, Ph.D.

Honors Undergraduate Thesis Student | PI: Robert Schultz, Ph.D. February 2016 – May 2017
Center for Autism Research
Children's Hospital of Philadelphia
Philadelphia, PA

Research Intern | PI: Rachel-Shlomit Brezis, Ph.D. Summer 2016
Sagol Center for Brain and Mind
The Baruch Ivcher School of Psychology
Herzliya, Israel

Undergraduate Research Assistant | PI: Simone Shamay-Tsoory, Ph.D. Fall 2015
Social and Affective Neuroscience Lab
The University of Haifa
Haifa, Israel

MENTORING EXPERIENCE

STEM Professional Letter Writer Fall 2024-Present
Letters to a Pre-Scientist (LPS)
Remote Position

“Near-Peer” Graduate Mentor Summer 2024
Building Research Independence by Developing Goals and hands-on Experiences (BRIDGE)
Temple University
Philadelphia, PA, USA

Graduate Mentor

Summer 2023

The Mid-Atlantic Neuroscience Diversity Scholars (MiNDS) program Temple University
Philadelphia, PA, USA

Executive Board Member & Mentor

Fall 2013 – Spring 2017

Big Brothers Big Sisters & KIPP West Philadelphia Preparatory Charter School
Philadelphia, PA, USA

TEACHING & RELEVANT EXPERIENCE**Masa Israel Teaching Fellow**

September 2017 – June 2018

Yachdav Elementary School
Beer Sheva, Israel

Neuroscience Teaching Assistant

Spring 2016

ABCS of Everyday Neuroscience
University of Pennsylvania & West Philadelphia High School
Philadelphia, PA, USA

Summer Program Assistant

Summer 2015

The Center for Neuroscience & Society
University of Pennsylvania
Philadelphia, PA, USA

Occupational Therapy Intern

Summer 2015

The Social Enrichment Center
Springfield, PA, USA

SKILLS

Research Methods | IRB protocol preparation, grant preparation, participant recruitment, survey and task design (Qualtrics, REDCap, jsPsych), data management (REDCap), literature review (PRISMA)

Statistics & Analyses | regression, ANOVA, hierarchical linear modeling (multilevel modeling), structural equation modeling, Item Response Theory (IRT)

Tools | RStudio, SPSS, MATLAB, Python (intermediate), Microsoft Office, EndNote, REDCap, MindWare (HRV & EEG data), iPi MoCap, Progeny

Task Administration & Scoring: Penn Computerized Neurobehavioral Test Battery, The Mini Mental State Examination (MMSE), Social Responsiveness Scale (SRS-2), The Bruininks-Oseretsky Test of Motor Proficiency Second Edition (BOTTM-2), Autism Quotient (AQ), Ohio State University (OSU) Autism Rating Scale, Ravens Colored Progressive Matrices, Peabody Picture Vocabulary Test (PPVT-5), Social Skills Improvement System (SSIS) Rating Scales, Child Behavior Questionnaire (CBQ)

Language | Hebrew (working proficiency)

PROFESSIONAL DANCE EXPERIENCE

2018-2019 *Pargod Dance Company* | Company Member | Beer Sheva, Israel

2018-2019 *Studio Positive* | Dance Teacher | Beer Sheva, Israel

2013-2017 *Sparks Dance Company* | President & Dancer | University of Pennsylvania, Philadelphia, PA