

## CURRICULUM VITAE

**Allison S. Langer**  
Temple University  
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### EDUCATION

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- 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

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- 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

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- 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

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Langer, A., Martinez, S., Marshall, J. P., Chein, J. (under review). Children's Susceptibility to Content Generated by Artificial Intelligence.

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

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**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

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**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 Probands 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.

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## RESEARCH EXPERIENCE

<b>Graduate Research Fellow Collaborator</b>   PI: Jason Chein, Ph.D. The Control and Adaptive Behavior Lab Temple University Philadelphia, PA	January 2024 – Present
<b>Graduate Research Fellow</b>   PI: Peter Marshall, Ph.D. The Developmental Science Lab Temple University Philadelphia, PA	August 2021 – Present
<b>Clinical Research Coordinator</b>   PI: Dr. Edward Brodtkin, M.D. The Autism Spectrum Program of Excellence Perelman School of Medicine University of Pennsylvania Philadelphia, PA	August 2019 – July 2021
<b>Research Assistant</b>   PI: Shelly Levy-Tzedek, Ph.D. The Cognition, Aging, and Rehabilitation Lab Ben-Gurion University of the Negev Beer Sheva, Israel	October 2018 – August 2019
<b>Research Assistant</b>   PI: Ilan Dinstein, Ph.D. Dinstein Neuroimaging Lab Ben-Gurion University of the Negev Beer Sheva, Israel	October 2017 – May 2018
<b>McMorris Summer Intern</b>   PI: Robert Schultz, Ph.D. Center for Autism Research Children's Hospital of Philadelphia Philadelphia, PA Mentored by Robert T. Schultz, Ph.D.	Summer 2017
<b>Honors Undergraduate Thesis Student</b>   PI: Robert Schultz, Ph.D. Center for Autism Research Children's Hospital of Philadelphia Philadelphia, PA	February 2016 – May 2017
<b>Research Intern</b>   PI: Rachel-Shlomit Brezis, Ph.D. Sagol Center for Brain and Mind The Baruch Ivcher School of Psychology Herzliya, Israel	Summer 2016
<b>Undergraduate Research Assistant</b>   PI: Simone Shamay-Tsoory, Ph.D. Social and Affective Neuroscience Lab The University of Haifa Haifa, Israel	Fall 2015

## **MENTORING EXPERIENCE**

<b>STEM Professional Letter Writer</b> Letters to a Pre-Scientist (LPS) Remote Position	Fall 2024-Present
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**“Near-Peer” Graduate Mentor** Summer 2024  
Building Research Independence by Developing Goals and hands-on Experiences (BRDIGE)  
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**

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**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**

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**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, structural equation modeling

**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 (BOT™-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**

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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

