

## CURRICULUM VITAE

# Leily M. Behbehani, B.S.

Cell: 917-834-6547

Email: leily.behbehani@gmail.com

### EDUCATION

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**2017–2021 B.S. Psychology**

Haverford College - Haverford, PA

Thesis Advisors: Laura Been, Ph.D. and Mary Ellen Kelly, Ph.D.

Senior Thesis: *The Effect of Chronic Tamoxifen Treatment on Mood-Related Behaviors in Rats.*

### HONORS, GRANTS & SCHOLARSHIPS

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- 2023 **Clinical Research Award**, Feinstein Institutes for Medical Research
- 2023 **Regional Travel Grant (\$400)**, Feinstein Institutes for Medical Research
- 2023 **International Travel Grant (\$550)**, Discourse Consortium
- 2021 **National Society of Leadership and Success**, Haverford College
- 2021 **Scholarship Improvement Prize (\$700)**, Haverford College

### PUBLICATIONS

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ORCID ID: [0009-0009-4374-7503](https://orcid.org/0009-0009-4374-7503)

2. Tang, S.X., Hänsel, K., Cong, Y., Nikzad, A., Mehta, A., Cho, S., Berretta, S., **Behbehani, L.**, Pradhan, S., John, M., Liberman, M., (2023) Latent Factors of Language Disturbance and Relationships to Quantitative Speech Features. *Schizophrenia Bulletin*. DOI: <https://doi.org/10.1101/2022.03.31.22273263>
1. Nikzad, A., Cong, Y., Berretta, S., Hänsel, K., Cho, S., Pradhan, S., **Behbehani, L.**, DeSouza, D., Liberman, M., Tang, S.X. (2022) Who Does What to Whom? Graph Representations of Action-Predication in Speech Relate to Psychopathological Dimensions of Psychosis. *Schizophrenia*. DOI: <https://doi.org/10.1038/s41537-022-00263-7>

#### **Under Review**

2. Tran, I.R., Tang, S.X, Berretta, S., **Behbehani, L.**, & Birnbaum, M.L. (2023). Development of a Novel Social Media and Internet Usage and Engagement Scale (SMILE) for Individuals with Schizophrenia and Psychotic Spectrum Disorders. *Digital Health*.
1. Been, L.E., Halliday, A.R., Blossom, S.M., Roth, G., Domenech, K., Abramenko, P., Pollack, K., **Behbehani, L.M.**, Pascal, G.J., & Kelly, M. (2023) Long-Term Oral Tamoxifen

Administration Decreases Brain-Derived Neurotrophic Factor in the Hippocampus of Female Long-Evans Rats. *Cancer*.

### In Preparation

1. **Behbehani, L.M.**, Singh, Z., Berretta, S., Bhola, S., Tang, S.X., Barzilay, R., Linguistic predictors of recent suicide attempts in Major Depressive Disorder and Borderline Personality Disorder.

## PRESENTATIONS

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### Poster Presentations

11. **Behbehani, L.M.**, Singh, Z., Spilka, M.J., Nikzad, A.M., Berretta, S., Bhola, S., Barzilay, R., Tang, S.X. (December, 2023). *Predicting suicide ideation and suicide attempts in clinical psychiatric population with computational speech and language features*. Presented at the Technology in Psychiatry Summit.
10. Tang, S.X., Nikzad, A.H., Spilka, M.J., Cong, Y., **Behbehani, L.M.**, Berretta, S., Kane, J.M., Malhotra, A.K. (December, 2023). *Linguistic risk score for schizophrenia: applying a polygenic risk approach to synthesize multivariate features from computational speech and language analysis*. Presented at the 62<sup>nd</sup> Annual Meeting of the American College of Neuropsychopharmacology.
9. Nikzad, A.H., Cong, Y., Berretta, S., **Behbehani, L.M.**, Pradhan, S., Tang, S.X. (December, 2023). *Disorganization disrupts the core: localizing clinical dimensions of speech and language disturbance within sentence structure*. Presented at the 62<sup>nd</sup> Annual Meeting of the American College of Neuropsychopharmacology Annual Meeting 2023, Upcoming.
8. **Behbehani, L.M.**, Bhola, S., Berretta, S., Tang, S.X. (October, 2023). *Sentiment in the speech of individuals with self-reported suicidality*. Presented at the Feinstein Institutes Scientific Poster Session Series.
7. **Behbehani, L.M.**, Bhola, S., Berretta, S., Tang, S.X. (September, 2023) *Sentiment in the speech of individuals with recent suicide attempts*. Presented at the Annual Clinical Research Professionals Poster Session, Zucker School of Medicine.
6. Tang, S.X., Spilka, M., Berretta, S., **Behbehani, L.M.**, Birnbaum, M., Saito, E., Costakis, A., Robin, J., John, M., Liberman, M., Simpson, W., Kane, J. (May, 2023) *Computational Speech and Language Biomarkers for Psychosis Symptoms during Acute Hospitalization*. Presented at the Schizophrenia International Research Society.
5. Spilka, M., Robin, J., Nikzad, A., **Behbehani, L.M.**, Berretta, S., Xu, M., Simpson, W., Tang, S.X. (May, 2023) *Do motor symptoms influence the digital speech assessment of negative symptoms in schizophrenia spectrum disorders?* Presented at the Schizophrenia International Research Society.
4. Tran, I.R., Tang, S.X, Baumel, A., Berretta, S., **Behbehani, L.M.**, & Birnbaum, M.L. (March, 2023). *Development of a Novel Social Media and Internet Usage and Engagement Scale*

*(SMILE) for Individuals with Schizophrenia and Psychotic Spectrum Disorders.* Presented at the Society for Affective Science Annual Convention.

3. Nikzad, A., Cong, Y., Hänsel, K., Cho, S., Berretta, S., **Behbehani, L.M.**, Tang, S.X. (April, 2022). *Modeling Cross-Diagnostic Speech Disturbance with Semantic and Structural Speech Graphs.* Presented at the Society of Biological Psychiatry's Annual Meeting.
2. Hänsel, K., Nikzad, A., Cong, Y., Mehta, A., Cho, S., Berretta, S., **Behbehani, L.M.**, Tang, S.X. (April, 2022) *Predicting General Psychopathology with Multi-Modal Speech and Language Features.* Presented at the Society of Biological Psychiatry's Annual Meeting.
1. Blossom, S.M., Halliday, A.R., Roth, G., Domenech, K., Abramenko, P., Pollack, K., Pascal, G., **Behbehani, L.M.**, Been, L.E., and Kelly, M. (November, 2021). *The effects of long-term oral tamoxifen administration on anxiety and cognition in Long-Evans Hooded female rats: a potential role for BDNF?* Presented at the Society for Neuroscience Annual Meeting.

### Oral Presentations

1. **Behbehani, L.M.** & Pascal, G. (May, 2021). *The Effect of Chronic Tamoxifen Treatment on Mood-Related Behaviors in Rats.* Presented at the Annual Meeting for Psychology and Neuroscience Research at Haverford College.

## RESEARCH EXPERIENCE

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### Project Manager

*April 2023 - Present*

*Feinstein Institutes for Medical Research  
Zucker Hillside Hospital, Northwell Health*

Principle Investigators: Julia Tartaglia, M.D. & Khatiya Moon, M.D.

- Ensure operational excellence in implementing an innovative research and clinical digital health initiative at the hospital level.
- Manage aspects of a large-scale, randomized, high-risk double-blind clinical trial, including industry liaison, assembling study materials, and operating software platforms to investigate the safety and utility of a suicide prevention digital therapeutic.
- Recruit participants from the inpatient psychiatric setting with severe suicide ideation and/or recent suicide attempts and administer clinical assessments accordingly.
- Serve as the unblinded individual to the study team, and randomize participants accordingly.
- Supervise, train, and mentor junior research coordinators on study procedures and assessments.

### Clinical Research Coordinator

*Feinstein Institutes for Medical Research, Queens, NY  
Zucker Hillside Hospital, Northwell Health*

*June 2021 - Present*

Principle Investigator: Sunny X. Tang, M.D.

- Implement nine observational studies investigating social cognition and linguistic biomarkers in severe mental illness, with an emphasis on schizophrenia spectrum disorders.
- Conduct and supervise study procedures and assessments including screening, clinical and diagnostic interviews, and neurocognitive tests.
- Lead in creating, programming, and supervising data collection and management across all studies.

- Contribute to lab-wide data analyses and maintenance using R programming software and REDcap.
- Assist in literature reviews, grant proposals, IRB submissions, and manuscript writing.
- Train and mentor additional coordinators, visiting scholars, and medical student volunteers.

### **Research Coordinator**

Northshore Therapeutics

*July 2023 – Present*

Supervisor: Sunny Tang, M.D.

- Recruit for, schedule, and administer market research interviews regarding novel augmented reality treatments for negative symptoms in schizophrenia.
- Design and monitor data collection from semi-structured interviews.
- Provide feedback to marketing and design staff for use in FDA-approved technology design.

**Haverford College**, Haverford, PA

*August 2020 – October 2021*

Supervisor: Mary Ellen Kelly, Ph.D & Laura Been, Ph.D.

*Research Assistant/Senior Thesis Student*

- Conducted behavioral analyses using rodent mazes to observe possible changes in mood following tamoxifen administration.
- Directed lab-wide data analyses on existing data using R programming software, SPSS, and Jamovi.
- Presented findings to the department showing significant anxiety and depression-like symptoms in rodents post-long-term tamoxifen treatment.
- Assisted in abstract proposal and literature reviews.

**Children's Hospital of Philadelphia**, Philadelphia, PA

*January 2019 - August 2020*

Supervisor: Lisa Schwartz, Ph.D.

*Research Assistant*

- Constructed care plans for adolescent and young adult cancer survivors with comorbid mental illness.
- Assisted in data organization and analysis using SPSS and REDcap for ongoing studies.
- Assisted in compiling literature reviews for upcoming studies on alternate forms of symptom management in young cancer patients.

**Chelsea and Westminster Hospital**, London, UK

*June - August 2019*

*Research Intern, Borne Charity/Imperial College Research Programme*

- Studied the loss of immune tolerance in pre-term birth and the association between the degree of dysregulation of immune function and the phenotype of labor.
- Dissected human placenta to isolate lymphocytes from decidua basalis.
- Assisted in the analysis of phenotypes of NK and T cells using flow cytometry.

**Imperial College**, London, UK

*June - August 2018*

*Undergraduate Research Opportunities Programme (UROP) Participant*

Supervisor: Simone Di Giovanni

- Studied the effects of intermittent fasting on muscle innervation following nerve injury.
- Imaged and analyzed neurons for axonal regeneration using immunohistochemistry techniques.
- Assisted in RNA sequencing of dorsal root ganglion in mice.

## CLINICAL AND VOLUNTEER EXPERIENCE

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### **Crisis Text Line, Virtual**

*November 2021 – Present*

#### *Volunteer Crisis Counselor*

- Counsel individuals in crisis for a 24/7 national crisis and suicide prevention hotline.
- Determine risk level of texters and coordinate with other staff in cases of imminent risk.
- Volunteer at least 5 hours a week.

### **Hearts and Homes, Westchester, NY**

*June 2022 – Present*

#### *Volunteer and ESOL tutor*

- Support holistic refugee resettlement in the Westchester and Bronx areas of New York.
- Focus on the resettlement of Afghan refugees from US army bases and support their transition.
- Teach ESOL courses to assigned families/individuals in the network.
- Meet weekly for ESOL tutoring and construction of lesson plans.

### **Young Adult Cancer Connection, Philadelphia, PA**

*June 2020 – June 2021*

#### *Outreach Intern*

- Curated resources for adolescent and young adult cancer patients and hosted virtual conferences.
- Researched and performed outreach to US adolescent and young adult oncology patients.

### **Healthy Mind Committee, Haverford College, Haverford, PA**

*September 2018 – May 2021*

#### *Member*

- Met weekly to organize events and improve mental health resources for Haverford students.

### **Phebe Anna Thorne School, Bryn Mawr, PA**

*September 2017 – March 2020*

#### *Teaching Assistant*

- Assisted teachers with a class of 15 children.
- Ran smaller groups in writing and reading development for students with special needs.

## SKILLS

**Statistical, Survey, and Programming Software:** R programming language, Python, Jamovi, SPSS, Mathematica; Microsoft Office; REDcap, Qualtrics.

**Languages:** English (fluent), Farsi (fluent), French (intermediate)

## ASSESSMENT TRAINING AND EXPERIENCE

### **Diagnostic Interview & Clinical Rating Scales**

- Structured Clinical Interview for DSM-V (SCID-V)
- Brief Psychiatric Rating Scale (BPRS)
- Scale for the Assessment of Negative Symptoms (SANS)
- Scale for the Assessment of Positive Symptoms (SAPS)
- The Positive and Negative Syndrome Scale (PANSS)
- Young Mania Rating Scale (YMRS)
- Hamilton Depression Rating Scale (HAM-D)

- Montgomery-Asberg Depression Rating Scale (MADRS)
- Scale for Suicide Ideation (SSI)
- Columbia-Suicide Severity Rating Scale (C-SSRS)
- Quality of Life Scale (QLS)
- Scale for the Assessment of Thought, Language, and Communication (TLC)
- Thought and Language Index (TLI)
- Global Functioning: Social and Role (GF: Role, GF: Social)

### **Neuropsychological Training**

- Measurement and Treatment Research to Improve Cognition in Schizophrenia (MATRICS)
- Repeatable Battery for the Assessment of Neuropsychological Status (RBANS)
- Consensus Cognitive Battery (MCCB)
- Brief Visuospatial Memory Test (BVMT)
- Hopkins Verbal Learning Task (HVLT)
- Letter-Number Span (LNS)
- Neuropsychological Assessment Battery (NAB)
- Wide-Range Achievement Test (WRAT)
- The Ambiguous Intentions Hostility Questionnaire (AIHQ)
- Hinting Task