

# Emma Ning

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## Education

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<b>University of Illinois Chicago</b> <i>Ph.D. student in Psychology</i>	August 2021 – Present <i>Chicago, IL</i>
<b>New York University</b> <i>M.A. in Psychology</i>	September 2019 – May 2021 <i>New York, NY</i>
<b>Smith College</b> <i>B.A. in Psychology; B.A. in Statistical &amp; Data Sciences</i>	September 2015 – May 2019 <i>Northampton, MA</i>

## Research Experience

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<b>Graduate Student</b> <i>University of Illinois Chicago</i> <ul style="list-style-type: none"><li>• Project 1: Understanding emotional communication through physiological signals</li><li>• Project 2: Modeling longitudinal changes in keyboard dynamics to understand affect fluctuations</li><li>• Faculty Advisor: Dr. Alexander Demos</li></ul>	August 2021 – Present <i>Chicago, IL</i>
<b>Graduate Research Assistant</b> <i>New York University</i> <ul style="list-style-type: none"><li>• Thesis: Musical Stroop - An Investigation of Musical Chroma Representations</li><li>• Faculty Advisor: Dr. David Poeppel</li><li>• Recruited, scheduled, and collected data for behavioral, MEG and EEG projects</li></ul>	September 2019 – May 2021 <i>New York, NY</i>
<b>Research Assistant</b> <i>University of Delaware; Indiana University</i> <ul style="list-style-type: none"><li>• Utilized machine learning methods to examine the association between developmental dyslexia and musical group performances</li><li>• Collaborated on a project investigating the impact of altered auditory sensitivity on external rhythm and interpersonal synchronization</li><li>• Pre-processed and modeled longitudinal clinical data using generalized mixed effects models to examine the impact of leukoaraiosis on frontotemporal dementia patients using behavioral and neuroimaging measures</li></ul>	June 2020 – May 2021 <i>Remote</i>
<b>Undergraduate Research Assistant</b> <i>Smith College</i> <ul style="list-style-type: none"><li>• Facilitated and programmed for <math>\Delta</math>Scope project to align zebrafish forebrain imaging samples</li><li>• Analyzed Project Implicit data and presented research finding at the annual meeting of the Society for Personality and Social Psychology (SPSP) Conference</li><li>• Conducted secondary research and constructed longitudinal questionnaires to measure sexual objectification in married couples</li></ul>	May 2016 – June 2018 <i>Northampton, MA</i>

## Publications

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1. **Ning, E.**, Cladek, A., Ross, M.K. Kabir, S., Barve, A., Kennelly, E., Hussain, F., Duffecy, J., Langenecker, S.L., Nguyen, T., Tulabandhula, T., Zulueta, J., Ajilore, O., Demos, A.P., Leow, A. Smartphone-derived Virtual Keyboard Dynamics Coupled with Accelerometer Data as a Window into Understanding Brain Health: Smartphone Keyboard and Accelerometer as window into Brain Health. *In Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI '23)*.
2. Ross, M.K., Tulabandhula, T., Bennett, C.C., Baek, E., Kim, D., Hussain, F., Demos, A.P., **Ning, E.**, Langenecker, S., Ajilore, O., Leow, A.D. (2023). A novel approach to clustering accelerometer data for application in passive predictions of mood changes. *Sensors*.
3. Demos, A.P., Del Tufo, S.N., **Ning, E.**, Marsh, K.L., Theodore, R. & Chaffin, R. (in review). Spontaneous interpersonal synchronization in dyslexia. *Musicae Scientiae*.

## Presentations

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1. **Ning, E.**, Cladek, A., Ross, M, Kabir, S., Barve, A., Kennelly, E., Hussain, F., Duffecy, J., Langenecker, S., Nguyen, T., Tulabandhula, T., Zulueta, J., Ajilore, O., Demos, A.P., Leow, A. Smartphone Keyboard and Accelerometer as Window into Brain Health. *Presented at 2023 Conference on Human Factors in Computing Systems (CHI'23) in Hamburg, Germany*.
2. Cladek, A., **Ning, E.**, Ross, M, Kabir, S., Barve, A., Kennelly, E., Hussain, F., Duffecy, J., Langenecker, S., Nguyen, T., Tulabandhula, T., Zulueta, J., Ajilore, O., Leow, A., Demos, A.P. Typing Dynamics as Digital Biomarkers of Mood. *Midwestern Psychological Association (MPA23)*.
3. Cladek, A., **Ning, E.**, Ross, M, Kabir, S., Barve, A., Kennelly, E., Hussain, F., Duffecy, J., Langenecker, S., Nguyen, T., Tulabandhula, T., Zulueta, J., Ajilore, O., Leow, A., Demos, A.P. Smartphone Typing Dynamics Predict Daily Mood and Impulsivity: A BiAffect Study. *Presented at UIC Psychiatry 13th Annual Research Forum*.
4. Smart technology in classrooms. *Presentation at Spencer Foundation funded Intersection of Racial Equity and Time-Series Methods Conference*.
5. Do listeners feel the same emotions as the performers? *Presentation at University of Illinois Chicago*
6. **Ning, E.**, Pelofi, C., Farbood, M., Poeppel, D. (2020). Musical Stroop—An Investigation of Musical Chroma Representations. *Presented at NYU MA Conference, 1<sup>st</sup> place awarded*.
7. Stark, B., Ali, N., Bouchouari, H., Gallison, K., Hayhoe, J., **Ning, E.**, Okorom, A., Zimmowitch, A. (2020). Examining longitudinal leukoaraiosis change in primary progressive aphasia during frontotemporal dementia and its relation to language change. *Presented at the Society for the Neurobiology of Language's 12<sup>th</sup> Annual Meeting, Virtual*.
8. **Ning, E.**, Rae, J., Garcia, R. L. (2019). Contact reducing prejudice? Cognitive processes behind implicit Hispanic attitudes. *Presented at the Society for Personality and Social Psychology's 20<sup>th</sup> Annual Meeting in Portland, OR*.
9. **Ning, E.**, Calabrese, J. R., Frost, R. O., Garcia, R. L. (2018). An examination of family warmth and perfectionism in hoarding disorder. *Presented at the New England Psychological Association's 58<sup>th</sup> Annual Meeting in Worcester, MA*.

## Teaching

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### Teaching Assistant

- University of Illinois Chicago, "Laboratory in Perception" (PSCH 351, Spring 2023)
- University of Illinois Chicago, "Statistical Methods in Behavioral Sciences" (PSCH 343, Spring & Fall 2022)

- University of Delaware, "The Intersection of Racial Equity and Time-series Methods Conference", (Summer 2022)
- University of Illinois Chicago, "Sensation and Perception", (PSCHE 350, Fall 2021)
- New York University, "Research Experience Mentor Outreach", (Summer 2020)
- Smith College, "Multiple Regression", (Fall 2018)
- University of Connecticut, "Dyadic Data Analysis Workshop", (Data Analysis Training Institute of Connecticut, DATIC; Summer 2018)

### *Awards & Honors*

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#### **Gary Marsden Travel Awards**

*Association for Computing Machinery, Special Interest Group on Computer-Human Interaction* *March 2023*

#### **Master-Mentorship Award Grant**

*New York University* *October 2020*

#### **MA Research Award**

*New York University* *June 2020*

#### **Susan Rose Internship in Music Grant**

*Smith College* *May 2019*

#### **Undergraduate Research Travel Award**

*Smith College* *February 2019*

#### **Summer Research Fellowship Program (SURF)**

*Smith College* *May 2017*

### *Professional Membership*

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**Member (Current):** Association for Computing Machinery (ACM), ACM Special Interest Group on Computer-Human Interaction (ACM SIGCHI), American Association for the Advancement of Science (AAAS)

**Member (Past):** Society for Music Perception and Cognition (SMPC), Psi Chi (Smith College), Mu Sigma Rho (Smith College)