

# Ester Navarro-Garcia, Ph.D.

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## ACADEMIC APPOINTMENTS

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### 2023- **Assistant Professor (Tenure-Track)**

College of Liberal Arts and Sciences  
Department of Psychology  
St. John's University

### 2021-2023 **Postdoctoral Scholar**

Center for Applied Brain and Cognitive Sciences  
Department of Psychology; Department of Engineering  
Tufts University

## EDUCATION

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2021 **Ph.D.** in Cognitive Psychology  
Claremont Graduate University  
Advisor: Andrew R. A. Conway

2018 **M.A.** in Cognitive Psychology  
Claremont Graduate University

2015 **B.A.** in Translation and Interpretation  
University of Granada

## PUBLICATIONS

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\* Student Author

11. Navarro, E & Rossi, E. (*in press*). Using Latent Variable Analysis to Capture Variability in Bilingual Language Experience. *Bilingualism: Language & Cognition*. Pre-print available: <https://psyarxiv.com/cf2t3>

10. Navarro, E., Hao, H., Rosales, K.P. Conway, A.R.A (2023). An item response theory approach to the measurement of working memory capacity. *Behavior Research Methods*. <https://doi.org/10.3758/s13428-023-02115-3>

9. Giles, G.E., Navarro, E., Eklin-Frankston, S., Brunye, T.T., Elmore, W.R., Seay, J.F., et al. (2023). Characterizing relationships among the cognitive, physical, social-emotional, and health-related traits of military personnel. *Military Medicine*. <https://doi.org/10.1093/milmed/usad002>

8. Cuartero\*, M., Rossi, E., Navarro, E., Pascual y Cabo, D. (2023). Mind the Net! Unpacking the contributions of Social Network Science for Heritage Bilingualism Research. *Research Methods in Applied Linguistics*. 2 (1) 1-10. <https://doi.org/10.1016/j.rmal.2023.100041>

7. Navarro, E. (2022). What is Theory of Mind? A Psychometric Study of Theory of Mind and Intelligence. *Cognitive Psychology*, 136. <https://doi.org/10.1016/j.cogpsych.2022.101495>

6. Brunyé, T.T., Giles, G.E., Eddy, M.D. & Navarro, E. (2022). Cranial Electrotherapy Stimulation (CES) Does Not Reliably Influence Emotional, Physiological, Biochemical, or Behavioral Responses to Acute Stress. *Journal of Cognitive Enhancement* <https://doi.org/10.1007/s41465-022-00248-5>

5. Navarro, E., DeLuca, V., Rossi, E. (2022). It Takes a Village: Using Network Science to Identify the Effect of Individual Differences in Bilingual Experience for Theory of Mind. *Brain Sciences*, 12 (4), 487 <https://doi.org/10.3390/brainsci12040487>

4. Brunyé, T. T., Yau, K., Okano, K., Elliott, G., Olenich, S., Giles, G. E., Navarro, E., Elkin-Frankston, S., Young, A. L., & Miller, E. L. (2021). Toward Predicting Human Performance Outcomes From Wearable Technologies: A Computational Modeling Approach. *Frontiers in Physiology*, 12, 738973. <https://doi.org/10.3389/fphys.2021.738973>

3. Navarro, E., & Conway, A. R. (2021). Adult Bilinguals Outperform Monolinguals in Theory Of Mind. *Quarterly Journal of Experimental Psychology*, 74(11), 1841–1851. <https://doi.org/10.1177/17470218211009159>

2. Navarro, E., Goring, S.A., & Conway, A.R.A. (2021). The Relationship between Theory of Mind and Intelligence: A Formative Model Approach. *Journal of Intelligence*. 9, 11. <https://doi.org/10.3390/jintelligence9010011>

1. Navarro E., Macnamara B.N., Glucksberg S., & Conway, A.R.A. (2020): What Influences Successful Communication? An Examination of Cognitive Load and Individual Differences, *Discourse Processes*, 57(10), <https://doi.org/10.1080/0163853X.2020.1829936>

## MANUSCRIPTS UNDER REVIEW

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Cantelon\*, J.A., Navarro, E., Brunye, T.T., Eddy, M.D., Ward, N., Pantoja Feliciano, I., Whitman, J., Jyoti Saikia, M., Giles, G.E. (*under review*). Predicting Emotional, Physiological, Biochemical, and Behavioral Responses to Acute Stress and Uncertainty.

Brunye, T.T., Navarro, E., Hart-Pomerantz, Taylor, H.A., et al. (*under review*). *Guiding Human Navigation with Non-Invasive Vestibular Stimulation and Evoked Mediolateral Sway*.

Giles, G.E., Cantelon, J.A., Navarro, E., Brunye, T.T. (*under review*). State and Trait Predictors of Cognitive Responses to Acute Stress and Uncertainty.

## MANUSCRIPTS IN PREPARATION

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Navarro, E., Rossi, E., & Cheung, Z. *Investigating Belief Attribution via Task-Based Neural Activity in EEG among Linguistically Diverse Adults*.

Navarro, E. & Rossi, E. *The Relationship between Metalinguistic Awareness and Perspective Taking Is Partially Mediated by Inhibitory Control*.

Goring\*, S.A. & Navarro, E. *Divergent trajectories in social cognition and intelligence performance among younger and older adults*.

Brunye, T.T., Navarro, E., Hart-Pomerantz, H., Grekin\*, S., McKinlay, A.M., Plessow, F. *Effects of Acute Stress Inductions on Salivary Biochemical Responses: A Meta-Analysis*.

## COLLABORATIONS AND PROJECTS

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- The effect of culture and country of origin on social cognitive performance. With Andrew Conway and Manali Pathare\*, New Mexico State University.
- Individual differences in the development of bilingual experiences throughout the lifespan via science network and EEG. With Eleonora Rossi, University of Florida and Debra Titone, McGill University.

## SELECT PRESENTATIONS AND INVITED TALKS

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\* Student Author

- 2023** Goring\*, S.A., & **Navarro**, E. The relationship between Theory of Mind and Intelligence across the life time. Poster accepted at the 2023 Psychonomic Society Annual Meeting, San Francisco.
- Navarro**, E. Bilingualism and Theory of Mind: Paths for Early Career Researchers in Psychology. Invited Talk at Tufts University. March 2023.
- 2022** **Navarro**, E., Giles, G.E., Elkin-Frankston, S., Cantelon\*, J.A., Eddy, M.D., Brunye, T. Behavioral and Physiological Predictors of Decision Making under Stress and Uncertainty in Soldiers. Poster Presentation at the Psychonomic Society Annual Meeting, Boston. November 2022.
- Rossi, E., Canarte, D., Cabrera\*, R., **Navarro**, E., Understanding the Nature of Bilingualism: Multimodal Network Approaches Reveal Dynamic Effects of Bilingualism for Language and Cognition. Talk presented at the Psychonomic Society Annual Meeting, Boston. November 2022.
- Navarro**, E & Brunye, T.Y. Latent Variable Analysis of Spatial Perspectives Preferences Tasks. Poster presented at the Tufts University Postdoctoral Poster Competition, Medford, MA. September 2022.
- Navarro**, E. & Rossi, E. Individual differences in bilingual experience for cognitive and social outcomes. Invited Talk at Dr. Debra Titone's Language and Multilingualism Lab. McGill University. May 2022.
- Giles, G., Elken-Frankston, S., Brunye, T., **Navarro**, E. et al. Soldier cognitive, health, physical, and social-emotional toolkit to predict performance. Poster at the American College of Sports Medicine. San Diego, California. May 2022.
- Goring\*, S. & **Navarro**, E. Theory of Mind across adulthood: the relationship between ToM and Intelligence changes with age. Poster at the Cognitive Aging Conference. Atlanta, Georgia. April 2022
- Navarro**, E. & Rossi, E. Using network science to identify the effect of individual differences in bilingual experience for theory of mind. Invited Talk at Dr. Judith Kroll's Bilingualism Mind and Brain Lab. University of California, Irvine. March 2022.
- 2021** Rossi, E & **Navarro**, E. How psychometric network models of bilingual experience predict cognitive performance. Invited Talk. UiT The Arctic University of Norway and the University of Reading (UK). December 2021.
- Navarro** E., & Rossi, E. Exploring the Dynamic Effects of Bilingualism using Psychometric Network Modeling. Poster presentation at the Trends in Psychology Summit (TiPS). November 2021.
- Navarro**, E., & Rossi, E. Multimodal Approaches Reveal Dynamic Effects of Bilingualism for Theory of Mind. Talk presented at the Psychonomic Society Annual Meeting. November 2021.
- Rossi, E & **Navarro**, E. Understanding the dynamic nature of bilingualism: A psychometric network model of bilingual experience. Invited Talk. The Arctic University of Norway. October 2021.
- Navarro**, E. & Conway, A.R.A. Are We Measuring Theory of Mind correctly? A Psychometric Measurement Analysis of Theory of Mind, Crystallized, and Fluid Intelligence. Poster presented at the Association for Psychological Science. May 2021.

**Navarro, E.** The psychometric structure of Theory of Mind, Gf, and Gc. Invited Talk. Department of Psychology, Claremont Graduate University. April 2021.

**2020 Navarro, E., Goring, S.A., & Conway, A.R.A.** The Relationship between Theory of Mind and Intelligence: A Formative Model Approach. Poster presented at the Psychonomic Society Annual Meeting. November 2020.

Hao, H., **Navarro, E.,** Rosales, K.P., Conway, A.R.A. An Evaluation of the Psychometric Properties of Verbal and Spatial Complex Span Tasks: An Item Response Theory Approach. Poster presented at the Psychonomic Society Annual Meeting. November 2020.

**Navarro, E.** Adult Bilinguals Outperform Monolinguals in Theory of Mind. Invited Talk. Dr. Judith Kroll's Bilingualism Mind and Brain Lab. University of California, Irvine. July 2020.

**Navarro, E.** Theory of Mind Differences between Bilinguals and Monolinguals. Invited Talk. Department of Psychology, Claremont Graduate University. April 2020.

**2019 Navarro, E., Macnamara, B.N., Conway, A.R.A.** The Effect of Cognitive Load, Interlocutor Interaction, and Individual Differences in Communication Planning and Monitoring. Poster presented at the Psychonomic Society Annual Meeting. Montreal, Canada. November 2019

**Navarro E.** Individual Differences and cognitive load in Communication Planning and Monitoring. Invited Talk. Invited Talk. Department of Psychology, Claremont Graduate University. May 2019.

**Navarro, E., Macnamara, B.N., Conway, A.R.A (2019).** Individual Differences in Communication Planning and Monitoring. Talk presented at the Western Psychological Association. Pasadena, California. April 2019.

**Navarro, E., Macnamara, B.N., Conway, A.R.A (2019).** Communication Planning and Monitoring. Talk presented at the University of Redlands Undergraduate Conference. Redlands, California. April 2019

## FUNDING

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<b>2021-2023</b>	<b>Defense Advanced Research Projects Agency - \$149,957; \$74,980</b> Title: Galvanic vestibular stimulation (GVS) for attentional and behavioral cueing. Role: Co-PI (with Tad Brunye, Holly Taylor)
<b>2020-2021</b>	<b>Claremont Graduate University Dissertation Award - \$10,000</b> Title: Understanding other people's minds: psychometric assessment and examination of the cognitive processes that predict theory of mind in bilinguals.
<b>2020</b>	<b>National Science Foundation Doctoral Dissertation Research Improvement Grants - Unfunded.</b> Title: A Novel Approach to Studying the Effect of Bilingualism on Theory of Mind. Role: Co-PI (with Andrew Conway and Eleonora Rossi).
<b>2019</b>	<b>Women in Cognitive Science Junior Scientist Award - \$1500</b> Title: Using EEG to explore dynamic differences in theory of mind among bilinguals and monolinguals. Role: Co-PI (with Eleonora Rossi)
<b>2016-2020</b>	<b>Claremont Graduate University Doctoral Fellowship. \$20,000</b> Title: Individual Differences in Communication planning and monitoring Role: Awardee (with Andrew Conway)

2015-2016      Scripps College Residence Fellowship - \$60,000

## TEACHING

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### At St John's University

**Fall 2023**      **Inferential Statistics (Graduate Level) (PSY 603)**  
                    **Psychological Measurement & Scaling (Graduate Level) (PSY 659)**  
**Spring 2024** **Cognitive Psychology (Undergraduate Level) (PSY 3280)**  
                    **Psychological Measurement & Scaling (Graduate Level) (PSY 659)**

### Past Institutions

**2020-2021**      **Research Methods in Behavioral Science with Lab (PSY 204)**  
                    Adjunct Lecturer, Chapman University  
**2019**              **Cognitive Processes (PSY 3334)**  
                    Adjunct Lecturer, California State Polytechnic University, Pomona  
**2019**              **Foundations in Advanced Research Methods I and II (ISP 202, ISP 252)**  
                    Adjunct Professor, Claremont Graduate University  
**2019-2021**      **Statistics and Research Consultant**  
                    Department of Linguistics and Cognitive Science, Pomona College

## MENTORING AND ADVISING

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\*Advised mentee's honors thesis/thesis project

† Advisee mentee's doctoral dissertation

### At St John's University

#### Research Advisees

**2023-present**      Bora Merajt (Doctoral student)  
**2023-present**      Christian DellaVella† (Doctoral Fellow)  
**2023-present**      Aina Carty\* (MA student)  
**2023-present**      Mohaned Elgizawy (MA student)  
**2023-present**      Phoebe Dobson (Undergraduate student)  
**2023-present**      Jan Jurkiewicz\* (MA student)

#### Academic Advisees

**Fall 2023**              Zain Abdelwahab  
                                Andy Abreu  
                                Nazlee Abril  
                                Ashton Achil  
                                Danielle Agard  
                                Aleena Alduenda  
                                Amira Alexander  
                                Jessica Alia  
                                Tamia Alvarez  
                                Morgan Amato

### Other Institutions

**2021-present**      New Mexico State University: Manali Pathare† (PhD Student)

### Past Advisees

**2021-2023**      Tufts University: Sophia Grekin (undergraduate RA), Hannah Hart-Pomerantz (RA)

- 2019-2021** Pomona College: Ruby Robinson\*, Ladin Boluk\*, Karoline Bendstrup\*, Marie Tano\*, Vienna Vance\*, Est Park\* (undergraduate students)
- 2019-2020** California State Polytechnic University, Pomona: Tyler McGee (undergraduate RA), Aline Terz (undergraduate student)

## AWARDS AND HONORS

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- 2022** Editor's Choice Article on the Journal of Intelligence for *The Relationship between Theory of Mind and Intelligence: A Formative Model Approach*. *Journal of Intelligence*. 9, 11. <https://doi.org/10.3390/jintelligence9010011>
- 2022** Tufts University Postdoctoral Research and Travel Award
- 2021** Psychonomic Society Early Career Talk Speaker
- 2020** Psychonomic Society Graduate Conference Award
- 2020** Claremont Graduate University Dissertation Award
- 2019** American Psychological Association Junior Scientist Award
- 2019** Western Psychological Foundation Student Research Award
- 2019** Claremont Graduate University Dean's Research and Travel Award
- 2016** Scripps College National Spanish Honor Society's (ΣΔΠ) Honor Membership
- 2015** University of Granada Lecturer Abroad Fellowship
- 2012** Westminster University (London, UK) Erasmus Scholarship
- 2011** Baccalaureate Honors Award (Highest Score in Spain's Standardized Assessment for College Admission)

## REVIEWER AND SERVICE POSITIONS

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- 2022-** Reviewer Board Member at the Journal of Intelligence (ISSN 2079-3200)

### Ad Hoc Reviewer: Journals

- Applied Psycholinguistics (1469-1817)
- Behavioral Sciences (2076-328X)
- Brain Sciences (2076-3425)
- Canadian Journal of Experimental Psychology (1878-7290)
- Cognitive Research: Principles and Implications (2365-7464)
- Cognitive Science (1551-6709)
- Forum for Linguistic Studies (2705-0602)
- International Journal of Bilingualism (1756-6878)
- International Journal of Environmental Research and Public Health (1660-4601)
- Journal of Applied Research in Memory and Cognition (2211-369X)
- Journal of Cognition (2514-4820)
- Journal of Intelligence (2079-3200)
- Linguistic Approaches to Bilingualism (1879-9272)
- Memory & Cognition (1532-5946)
- Scientific Reports (2045-2322)

### Ad Hoc Reviewer: Conferences

- 4<sup>th</sup> International Symposium on Bilingual and L2 Processing in Adults and Children (ISBPAC) - August 2022

### Community Engagement

- 2021-2023** President of the Tufts University Postdoctoral Association
- 2016-2021** Psi-Chi Member

## LANGUAGES

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- English (native level)
- Spanish (native)
- Italian (proficient)
- German (basic)

## **PROFESSIONAL MEMBERSHIPS**

Psychonomic Society ■ Women in Cognitive Science (WiCS) ■ Association for Psychological Science (APS) ■ Society for Applied Research in Memory and Cognition (SARMAC) ■ Sigma Delta Pi ■