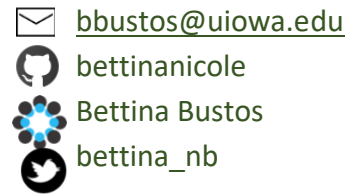


# Bettina Bustos



## Education

University of Iowa

2021 - | Ph.D., Psychological and Brain Sciences  
Advisor: Jiefeng Jiang, Ph.D.

University of Texas at Austin

2018 | B.A., Psychology & B.A., Health in Society, Minor in Philosophy  
*The Interaction of Depression and Cognitive Control on Prospective Memory*  
Advisor: Jarrod Lewis-Peacock, Ph.D.

## Research

Washington University in St. Louis - Lab Manager

2019 - 2021 | Control and Decision-Making Lab  
PI: Wouter Kool, Ph.D.

University of Pittsburgh - Research Assistant

2018 - 2019 | Adult Health, Aging and Behavior longitudinal study  
PIs: Stephen Manuck, Ph.D., Anna Marsland, Ph.D. & Peter Gianaros, Ph.D.

University of Texas at Austin - Research Assistant

2016 - 2018 | Lewis-Peacock Cognitive Neuroscience of Memory Lab  
PI: Jarrod Lewis-Peacock, Ph.D.

2015 - 2017 | Cognitive Neuroscience of Categorization and Decision-Making Lab  
PI: W. Todd Maddox, Ph.D.

## Awards

MAR 2018 | COSYNE (Computational & Systems Neuroscience Conference) undergraduate travel award  
APRIL 2022 | CNS (Cognitive Neuroscience Society) Graduate student award

## Programs, Languages & Skills

Programming: Python, JavaScript/HTML/CSS

Analysis: FSL, R

Qualifications: MRI User (Siemens 3T scanner), e-Mini International Neuropsychiatric Interview, Low-Level Light Therapy Technique, Heart Rate Variability (HRV), EEG, administration of Neuropsychiatric battery, fluent in verbal and written Spanish.

## Code

**Bustos, B.**, and Kool, W. (2020) Four sequential decision-making tasks to distinguish between multiple reinforcement-learning systems ([OSF](#))

## Publications

**Bustos, B.**, Jiang, J., and Kool, W. (2022) Reward masks the learning of cognitive control demand. In preparation.

**Bustos, B.\***, Colvett, J\*., Bugg, J., and Kool, W. (2022) Working Hard or Hardly Working: Learning Based Reactive Control Does Not Produce Demand Differences. In preparation.

Dolgin, J., **Bustos, B.**, Wilson, R.C., and Kool, W. (2021) Directed exploration involves deciding not just whether, but also, when to explore. In preparation.

(\*co-first authors)

## Presentations

**Bustos, B.**, Jiang, J. (2022) Task switch costs scale with dissimilarity between task-rules in a cognitive map-like manner. Poster presented by B.B. at the 29th Annual Meeting of the Cognitive Neuroscience Society.

Dolgin, J., **Bustos, B.**, Wilson, R.C., and Kool, W. (2021) Directed exploration involves deciding not just whether, but also, when to explore. Poster presented by J.D. at the 62<sup>nd</sup> annual meeting of Psychonomic Society, and the 2<sup>nd</sup> Workshop on Mental Effort.

## References

Wouter Kool: [wkool@wustl.edu](mailto:wkool@wustl.edu) | Stephen Manuck: [manuck@pitt.edu](mailto:manuck@pitt.edu) | Jarrod Lewis-Peacock: [jalewpea@utexas.edu](mailto:jalewpea@utexas.edu)