

# CHRISTINA H. BEJJANI

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## EDUCATION

- 2021, Ph.D. (expected) Department of Psychology & Neuroscience, Duke University  
Certificates: Cognitive Neuroscience, College Teaching, Accomplishment in Teaching Writing in the Disciplines  
*Dissertation: Learning Context-Sensitive Control*  
Tobias Egner; Committee: John Pearson, Elizabeth Marsh, Gregory Samanez-Larkin
- 2018, M.A. Department of Psychology & Neuroscience, Duke University  
*How episodic structure shapes the learning of cognitive control: A theoretical review*
- 2013, B.A. Department of Neuroscience, Pomona College  
*M1 and M2 activation of homologous mammalian Drosophila hemocytes*

## PUBLICATIONS

\* = undergraduate student mentored, \*\* = equal authorship contribution

1. **Bejjani, C.**, Dolgin, J., Zhang, Z.\*, and Egner, T. (2020). Disentangling the roles of cue visibility and knowledge in adjusting cognitive control: A preregistered direct replication of the Farooqui and Manly (2015) study. *Psychological Science*, 31(4), 468-479. <https://doi.org/10.1177/0956797620904045>  
Open access preprint available [here](#).
2. **Bejjani, C.**, Tan, S.\*, and Egner, T. (2020). Performance feedback promotes proactive but not reactive adaptation of conflict-control. *Journal of Experimental Psychology: Human Perception and Performance*, 46(4), 369-387. <https://doi.org/10.1037/xhp0000720>  
Open access preprint available [here](#).
3. **Bejjani, C.** and Egner, T. (2019). Spontaneous task structure formation results in a cost to incidental memory of task stimuli. *Frontiers in Psychology*, 10, 2833.  
<https://doi.org/10.3389/fpsyg.2019.02833>
4. **Bejjani, C.**, DePasque, S., and Tricomi, E. (2019). Intelligence mindset shapes neural learning signals and memory. *Biological Psychology*, 146, 107715.  
<https://doi.org/10.1016/j.biopsycho.2019.06.003>  
Open access preprint available [here](#).  
Article covered in [Rutgers-Newark featured post](#)
5. DiMenichi, B.C., Lempert, K.M., **Bejjani, C.**, and Tricomi, E. (2018). Writing about past failures attenuates cortisol responses and sustained attention deficits following psychosocial stress. *Frontiers*

in *Behavioral Neuroscience*, 12: 45. <http://doi.org/10.3389/fnbeh.2018.00045>

Article covered in [Newsweek](#), [Science Daily](#), [Forbes](#), [The Daily Mail](#), [Moneyish](#), [Mic](#), [New York Post](#), [Neuroscience News](#), and [more](#)

6. **Bejjani, C.**, Zhang, Z.\*, and Egner, T. (2018). Control by association: Transfer of implicitly primed attentional states across linked stimuli. *Psychonomic Bulletin and Review*, 25(2): 617-626.

<http://dx.doi.org/10.3758/s13423-018-1445-6>

Article covered in [Psychonomics Featured Content](#)

## MANUSCRIPTS IN PROGRESS

1. **Bejjani, C.** and Egner, T. (invited revision in preparation for *Journal of Experimental Psychology: Learning, Memory, and Cognition*; open access preprint [here](#)). How reinforcement shapes the binding of stimulus-control associations.

2. Yang, B.W.\*\*, **Bejjani, C.\*\***, and Hard, B.M. (under review at *Teaching of Psychology*). Teaching intelligence mindsets with student data.

3. **Bejjani, C.\*\***, Siqu-Liu, A.\*\*, and Egner, T. (under review at *Journal of Experimental Psychology: Learning, Memory, and Cognition*; open access preprint [here](#)). Minimal impact of consolidation on learned switch-readiness.

## REFEREED POSTER PRESENTATIONS

1. **Bejjani, C.** and Egner, T. (2020, November). Performance feedback enhances the binding of stimulus-control associations. Poster presented by C.B. at the 61<sup>st</sup> annual meeting of Psychonomics Society, virtual.

2. Yang, B.W.,\*\* **Bejjani, C.\*\***, Albus, T.\*, O'Connor, T.\*, Ebrem, C.\*, and Hard, B.M. (2020, January). Using Language to Measure Student Beliefs about Intelligence. Poster presented by B.W.Y. & C.B. at the 42<sup>nd</sup> annual meeting of the National Institute on the Teaching of Psychology, St. Pete Beach, FL.

3. **Bejjani, C.** and Egner, T. (2019, November). Performance feedback promotes learned proactive but not reactive adaptation of conflict-control. Poster presented by C.B. at the 60<sup>th</sup> annual meeting of the Psychonomics Society, Montreal, CA.

4. Dolgin, J., **Bejjani, C.**, Zhang, Z.\*, and Egner, T. (2019, May). Disentangling the roles of cue visibility and knowledge in learning cognitive control. Poster presented by J.D. at the 31<sup>st</sup> annual meeting of the Association for Psychological Science, Washington, D.C.

5. Zhang, Z.\*, **Bejjani, C.**, Dolgin, J., and Egner, T. (2019, March). Disentangling the roles of cue visibility and knowledge in learning cognitive control. Poster presented by Z.Z. and J.D. at the 26<sup>th</sup> annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.

6. **Bejjani, C.**, Whitehead, P.S., Sali, A.W., Chiu, Y.C., and Egner, T. (2019, March). Assessing causal contributions of parietal cortex to learned cognitive flexibility. Poster presented by C.B. at the 26<sup>th</sup> annual meeting of the Cognitive Neuroscience Society, San Francisco, CA. *Graduate Student Award*.

7. **Bejjani, C.** and Egner, T. (2018, November). Causal transfer of specific attentional control states. Poster presented by C.B. at the 59<sup>th</sup> annual meeting of the Psychonomics Society, New Orleans, LA. *Psychonomics Graduate Travel Award.*
8. **Bejjani, C.** and Egner, T. (2018, March). Creating structured task-sets from categorical stimuli. Poster presented by C.B. at the 25<sup>th</sup> annual meeting of the Cognitive Neuroscience Society, Boston, MA.
9. Sali, A.W., **Bejjani, C.**, and Egner, T. (2018, March). Learning cognitive flexibility: Neural mechanisms of adaptive switch readiness. Poster presented by A.W.S. at the 25<sup>th</sup> annual meeting of the Cognitive Neuroscience Society, Boston, MA.
10. **Bejjani, C.**, Zhang, Z.\*, and Egner, T. (2018, February). Causal transfer of specific attentional control states. Poster presented by Z.Z. at the North Carolina Cognition Conference, Chapel Hill, NC.
11. **Bejjani, C.** and Egner, T. (2017, October). Control by association: Transfer of implicitly primed control-states across linked stimuli. Poster presented by C.B. at the 58<sup>th</sup> annual meeting of the Psychonomics Society, Vancouver, CA. *3<sup>rd</sup> place for Psychonomics conference Division 3 Poster Award.*
12. Sali, A.W., **Bejjani, C.** and Egner, T. (2017, October). Neural mechanisms of learned switch-readiness. Poster presented by A.W.S. at the 58<sup>th</sup> annual meeting of the Psychonomics Society, Vancouver, CA.
13. **Bejjani, C.**, DePasque, S., Bhanji, J.P., and Tricomi, E. (2017, March). Effects of intelligence mindset on performance are mediated by dlPFC and caudate. Poster presented by C.B. at the 24<sup>th</sup> annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
14. **Bejjani, C.**, DePasque, S., and Tricomi, E. (2016, April). Theory of intelligence influences striatal response to feedback after a demanding test. Poster presented by C.B. at the 9<sup>th</sup> annual meeting of the Social Affective Neuroscience Society, New York, NY.
15. **Bejjani, C.**, DePasque, S., and Tricomi, E. (2016, March). Cognitive appraisal of threat influences striatal response to negative feedback. Poster presented by C.B. at the 23<sup>rd</sup> annual meeting of the Cognitive Neuroscience Society, New York, NY. *Cognitive Neuroscience Society People's Choice award.*
16. Sullivan-Toole, H., **Bejjani, C.**, and Tricomi, E. (2015, March). The interplay of choice and effort on outcome processing. Poster presented by H.S.T. and C.B. at the 22<sup>nd</sup> annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
17. **Bejjani, C.H.**, King, J.T, and Watanabe, J. (2012, October). Conserved mechanism of phagocytosis in mammals and drosophila. Poster presented by C.B. at the 42<sup>nd</sup> annual meeting of the Society for Neuroscience, New Orleans, LA.

## INVITED TALKS & SYMPOSIA

- 2021 "Mindset: how, when, and where does it make a difference?" symposium at IMBES conference in Montreal – rescheduled due to COVID-19
- 2020 "Control-learning is shaped by domain-general and domain-specific associative learning", Shenhav lab, Brown University

## RESEARCH, TRAINING, & SERVICE GRANTS

- 2019 Germinator Grant (\$25,000), Duke Institute for Brain Sciences  
PIs: Christina Bejjani & Tobias Egner  
Co-Is: John Pearson, Terrie Moffitt, Avshalom Caspi, and Alison Adcock  
*Towards a Computational Psychiatry of Transdiagnostic Deficits in Cognitive Control*
- Charles Lafitte Foundation Graduate Grant Award (\$1,022), Duke University  
PI: Christina Bejjani, Mentor: Tobias Egner  
*Modeling How Episodic Memory Affects the Learning of Cognitive Control on an Individual and Group Level*
- Charles Lafitte Foundation Graduate Grant Award (\$4,880), Duke University  
PIs: Christina Bejjani\*\*, Brenda Yang\*\*, Mentor: Bridgette Martin Hard  
*Intelligence Mindsets across Classrooms*
- 2018 Graduate Student Training Enhancement Grant (\$700), Duke Graduate School  
*Computational Summer School*
- Professional Development Grant (\$1,500), Duke Graduate School  
PIs: Christina Bejjani & Elizabeth Marsh  
*Psychology & Neuroscience Department - Women's Support Network*  
"How to Advocate for Yourself" panel, talks from Drs. Stacey Daughters & Alana Connor, & a biweekly writing group
- 2017 Graduate Student Training Enhancement Grant (\$400), Duke Graduate School  
*Computational Summer School*, offered but not accepted

## HONORS & AWARDS

- 2020 Vertical Integration Program Mentor, Duke University  
Bass Digital Education Fellowship, Duke University  
Dean's Award for Excellence in Mentoring, Duke University
- 2019, 2020 Competitive Summer Graduate Research Fellowship, Duke University
- 2018, 2019 Charles Lafitte Foundation Graduate/Postdoc Travel Award, Duke University
- 2019 Graduate Travel Award, Duke Graduate School  
Preparing Future Faculty Program, Duke University  
Graduate Student Award, Cognitive Neuroscience Society

- 2018 Graduate Travel Award, Psychonomics Society  
Young Star Estes Award, Indiana University, Bloomington
- 2017, 2018 Summer Graduate Research Fellowship, Duke University  
Claire Hamilton Conference Travel Award, Duke University  
Interdisciplinary Behavioral Research Center Mini-Grant, Duke SSRI
- 2017 3<sup>rd</sup> place, Psychonomics conference Division 3 Poster Award, Psychonomics Society  
Translational Ambassador, Duke University
- 2016 People's Choice Poster Award, Cognitive Neuroscience Society
- 2012 Sigma Xi Associate Member Nomination, Pomona College  
Summer Undergraduate Research Fellowship, Pomona College

## TEACHING EXPERIENCE

### *Instructor of Record:*

- 2020 Introductory Programming for Online Social Science Experiments, Duke University  
*Currently being developed as part of my Bass Digital Education Fellowship.*
- 2019 Introduction to Cognitive Psychology (Summer Term I), Duke University  
<https://cogpsychduke2019.github.io>

### *Teaching Assistantships at Duke University:*

- 2019 Introduction to Statistical Methods in Psychology (Spring, Professor: Gregory Samanez-Larkin)
- 2018 Introduction to Cognitive Psychology (Fall, Professor: Roberto Cabeza)  
Distinction Thesis Workshop (Spring, Professor: Tobias Egner)
- 2017 Introduction to Cognitive Neuroscience (Fall, Professor: Tobias Egner)

### *Workshops, Guest Lectures, and Demos:*

- 2019 Athletics Tutor, Introduction to Cognitive Psychology, Duke University  
Guest Lecture/Research Talk, Neuropsychology, Meredith College  
Consultant, Graduate TA workshop, Psychology & Neuroscience, Duke University
- 2018, 2019 Cognitive Neuroscience Admitting Program recruitment weekend demo on Transcranial Magnetic Stimulation (TMS), Duke University
- 2018 Guest Lecture, Introduction to Cognitive Psychology, Duke University

2017            JavaScript/Amazon Mechanical Turk Workshop for Cognitive Neuroscience  
                  Admitting Program & Psychology & Neuroscience students, Duke University

*Professional Development:*

2019 – 2020    Preparing Future Faculty program, Duke University  
                  Mentor: Betty-Shannon Prevatt, Meredith College  
                  *Competitive program geared towards introducing fellows to various faculty roles,  
                  including those at local liberal arts colleges, a state school, an HBCU, and a research  
                  university through onsite visits and one-on-one faculty mentorship*

2019            Attendee at PsychOne Conference, Duke University

2018            Teaching Triangles, Duke University  
                  *Peer observation of teaching from two PhD (English and Political Science) students in  
                  the Certificate for College Teaching program*

2018, 2019    Attendee at Teaching and Learning Conference, Elon University

2017 –           Certificate of Accomplishment in Teaching Writing in the Disciplines, Duke University  
                  Workshops taken: *Grading Student Writing, Crafting Effective Writing Assignments I: The  
                  Writing Task, Crafting Effective Writing Assignments II: The Writing Process, Helping  
                  Students Write Well Structured Papers, Rethinking the Library Research Paper*, in  
                  addition to reflections on writing assignments, feedback samples, and *The Elements  
                  of Teaching Writing: A Resource for Instructors in All Disciplines*

                  Certificate in College Teaching, Duke University  
                  Courses taken: *Fundamentals of College Teaching, College Teaching – Course Design,  
                  College Teaching and Visual Communication, Research in the Classroom, Digital  
                  Pedagogy, Psychology Teaching Seminar*

## **MENTORING EXPERIENCE**

*Honors Thesis Students:*

2017 – 2020    Ziwei Zhang, Class of 2020, Duke University  
                  Now: PhD student at University of Chicago, PI: Monica Rosenberg

*Awards:*

                  Summer Neuroscience Program, Duke Institute for Brain Sciences  
                  Charles Lafitte Foundation Undergraduate Travel Award, Duke University (2x)

*Independent Study Students:*

2019 –           Vineethsubbu Somasundaram, Class of 2022, Duke University

*Awards:*

Vertical Integration Program, Psychology & Neuroscience, Duke University

2018 – 2019 Sophie Tan, Class of 2020, Duke University

*Awards:*

Vertical Integration Program, Psychology & Neuroscience, Duke University

*Offered, but not accepted*

*Research Practicum Students and Research Assistants:*

2019 Benjamin Romero Jr., Class of 2021, Duke University

2018 – 2020 Co-mentored with Brenda Yang, Duke University:  
Noah Schaffir, Class of 2021;  
Sydney Albert, Class of 2022;  
Thomas O'Connor, Class of 2020, Now: Data Analyst, BNY Mellon  
Taylor Albus, Class of 2020, Now: Technology Analyst, Goldman Sachs

2016 Jessica Bowen, Class of 2018, Rutgers-Newark;  
Mihika Gupta, Class of 2018, Rutgers-Newark

*Professional Development:*

2019 Participant, Mentorship Workshop series, Duke Institute for Brain Sciences

2018 Mentor, First-year Psychology & Neuroscience graduate students, Duke University

2016 – 2017 Founder, Graduate/undergraduate student mentorship program, Women in Science and Engineering, Duke University

2016 Selected for inaugural graduate/undergraduate mentoring program: Passing the Torch, Women's Center, Duke University

2012 – 2013 Residential Adviser, Pomona College

**RESEARCH EXPERIENCE**

2016 – 2021 Department of Psychology & Neuroscience, Duke University  
Ph.D. Graduate Student, Cognitive Neuroscience area  
Tobias Egner (advisor), Bridgette Martin Hard and John Pearson (collaborators)

2014 – 2016 Department of Psychology, Rutgers University, Newark  
Principal Lab Assistant  
PI: Elizabeth Tricomi

2013 – 2014     Department of Psychology, University of California, Los Angeles  
Research Assistant  
PI: Jesse Rissman, with Natalie De Shetler, Ph.D.

2011 – 2013     Departments of Neuroscience and Biology, Pomona College  
Research Assistant  
PIs: Junryo Watanabe & Rachel Levin

## UNIVERSITY SERVICE

2017 – 2020     Graduate & Professional Student Council Representative, Psychology &  
Neuroscience, Duke University  
*Served on Student Health Insurance Advisory Committee, Harassment Grievance Board,  
GPSC Advocacy Committee*

Discussion leader (1x) & member, Women in Science & Business book club (later  
known as Scientists Promoting Equity and Knowledge), Duke University

2020             Presenter, Trinity College Board of Visitors, Duke University  
Panelist, Graduate TA Workshop, Psychology & Neuroscience, Duke University  
Reviewer, TA Guidelines for Psychology & Neuroscience, Duke University  
Reviewer, Preparing Future Faculty Program, Duke University  
Panelist, Preparing Future Faculty Information Session, Duke University  
Presenter, Graduate School Board of Visitors, Duke University

2017 – 2019     Graduate Student Affairs Liaison, Psychology & Neuroscience, Duke University

2018, 2019     Panelist, Applying to Graduate School, Psychology & Neuroscience, Duke University

2017 – 2018     Founder, Psychology & Neuroscience Women's Support Network, Duke University  
Co-organizer, Center for Cognitive Neuroscience journal club, Duke University

2016 – 2018     Co-organizer, Psychology & Neuroscience Graduate Student Recruitment Weekend,  
Duke University

2018             Presenter, Duke Institute for Brain Sciences External Advisory Board meeting

2017             Panelist, Applying to Graduate School, Neuroscience Majors Union, Duke University  
Planning Committee Member, Women in Science and Engineering, Duke University

2014 – 2016     Discussion leader (3x) & member, Women in Science book club, Rutgers-Newark

2009 – 2013     Editorial Board Member, Passwords (literary magazine), Pomona College

2010 – 2013     Co-founder of 5Cs Out Loud (creative expression club), Pomona College



2009 – 2011      Class representative, Pomona Events Committee, Pomona College

2009              Section Editor, Metate (yearbook), Pomona College

## **NATIONAL SERVICE & PROFESSIONAL MEMBERSHIPS**

### *Journal Reviewer:*

Cognition • Cognitive Psychology • Journal of Experimental Psychology: Human Perception and Performance • Journal of Experimental Psychology: Learning, Memory and Cognition • Psychological Research

### *Society-based:*

2017, 2018      Volunteer at the 24th & 25th annual Cognitive Neuroscience Society meetings

2017              Judge for the Sigma Xi virtual Student Research Showcase

### *Memberships:*

American Psychological Association, Association for Psychological Science, Cognitive Neuroscience Society, Social and Affective Neuroscience Society, Society for Neuroscience, Sigma Xi Scientific Honor Society

## **OUTREACH**

### *Writing:*

2019              Supervised cognitive psychology writing for Duke Research Blog, Duke University  
[Innocent Until Proven Guilty? Well, That Depends](#) by Casey Chanler  
[6-Month-Old Brains Are Categorically Brilliant](#) by Jing Liu  
[A Mind at Rest Still Has Feelings](#) by Brynne O'Shea  
[Are People Stuck with Their Political Views?](#) by Casey Holman  
[Move Your Eyes and Wiggle Your Ears](#) by Benjamin Fiszal  
[Your Brain Likes YOU Most](#) by Kenan Kaptanoglu  
[Putting Your Wandering Mind on a Leash](#) by Jesse Lowey  
[Just The Way You Can Say It Can Make Something 'True'](#) by Kevyn Smith

2017, 2019      Writer, Professional Development blog for the Duke University Graduate School:  
Guest Post: "[Making Time to Write: The Value of Writing Groups](#)"  
Guest Post: "[Alumni Profiles Series: Vijeth Iyengar](#)"  
Guest Post: "[Becoming a Better Teacher: Trans\\* Inclusive Pedagogy](#)"

### *Community-based:*

2020              Perkins Library Student Wall Exhibit: "[What do we think about when we think about](#)

[intelligence?](#)", organized by Christina Bejjani & Brenda Yang; assisted by Ceren Ebre, Sydney Albert, Noah Schaffir, & Bridgette Martin Hard

- 2017, 2020 Judge, NC Central Regional Science and Engineering Fair, Durham
- 2017, 2018 Kids table team leader, Duke Institute of Brain Sciences Brain Discovery Day
- 2016, 2017 Graduate mentor, US2020 Research Triangle Park STEM-focused Expos
- 2016 Presenter, Graduate Women in Science & NC Girl Scouts, Meredith College
- 2011 Health Stimulus Initiative Intern, Portable Wellness Clinic, Chino Hills
- 2009 – 2011 Events committee organizer, Red Cross Club, Pomona College

## **ADDITIONAL TRAINING**

- 2020 Introduction to Software Development, Graduate Academy, Duke University  
Introduction to SQL and Managing Big Data with MySQL coursera, Duke University  
Data Visualization and Communication with Tableau coursera, Duke University
- 2018 Model-based Neuroscience Summer School, University of Amsterdam  
Summer School in Machine Learning, Duke University  
Summer School in Social Neuroscience and Neuroeconomics, Duke University  
Workshop on "[Deep, fast and shallow learning in humans and machines](#)", Indiana University, Bloomington  
Course in Science Communication, Duke University
- 2017 Graduate Teaching Assistant Training, Duke University  
Course in Transcranial Magnetic Stimulation (TMS), Duke University

## **TECHNICAL SKILLS**

### *Languages:*

Familiarity with Arabic and French

### *Computer-based:*

JavaScript, HTML, CSS, Python, Matlab (incl. Psychtoolbox), R, MTurk, E-Prime, SPSS, JASP, BrainVoyager, FSL, Bootstrap, Photoshop, InDesign, Illustrator, Microsoft Office, Web Development

## REFERENCES

Tobias Egner  
PhD Advisor & TA Supervisor  
Topics: Teaching, Mentoring, & Research  
Prof. of Psychology & Neuroscience  
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Bridgette Martin Hard  
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Gregory Samanez-Larkin  
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Elizabeth Tricomi  
Post-bac Research Supervisor  
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