# CHRISTINA H. BEJJANI

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### **EDUCATION**

2021, Ph.D. Department of Psychology & Neuroscience, Duke University

(expected) Certificates: Cognitive Neuroscience, College Teaching, Accomplishment in Teaching

Writing in the Disciplines

Dissertation: Learning Context-Sensitive Control

PI: Tobias Egner; Committee: John Pearson, Elizabeth Marsh, Gregory Samanez-Larkin

2018, M.A. Department of Psychology & Neuroscience, Duke University

Thesis: How episodic structure shapes the learning of cognitive control: A theoretical review

2013, B.A. Department of Neuroscience, Pomona College

Thesis: 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. <a href="https://doi.org/10.1177/0956797620904045">https://doi.org/10.1177/0956797620904045</a>

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. <a href="https://doi.org/10.1037/xhp0000720">https://doi.org/10.1037/xhp0000720</a>

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. <a href="https://doi.org/10.3389/fpsyg.2019.02833">https://doi.org/10.3389/fpsyg.2019.02833</a>
- 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. <a href="http://doi.org/10.3389/fnbeh.2018.00045">http://doi.org/10.3389/fnbeh.2018.00045</a>

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. (under review at *Journal of Experimental Psychology: Learning, Memory, and Cognition*; open access preprint <u>here</u>). 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.\*\***, Siqi-Liu, A.\*\*, and Egner, T. (in preparation for *Journal of Human Perception and Performance*). 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. and 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 26th 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. *Won 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. *Won 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 25th 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-BEJJANI CV / updated August 19, 2020 / 2

states across linked stimuli. Poster presented by C.B. at the 58th annual meeting of the Psychonomics Society, Vancouver, CA. Won 3rd 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 58th 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. *Won the 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.

## 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 AND AWARDS

HONORS AND	OAWARDS
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:

2019 Introduction to Cognitive Psychology (Summer Term I), Duke University

https://cogpsychduke2019.github.io

Teaching Assistantships:

2019 Introduction to Statistical Methods in Psychology (Spring, Professor: Gregory Samanez-

Larkin, Duke University)

2018 Introduction to Cognitive Psychology (Fall, Professor: Roberto Cabeza, Duke University)

Distinction Thesis Workshop (Spring, Professor: Tobias Egner, Duke University)

2017 Introduction to Cognitive Neuroscience (Fall, Professor: Tobias Egner, Duke University)

Workshops, Guest Lectures, and Demos:

2019 Athletics Tutor, Introduction to Cognitive Psychology, Duke University

Guest Lecture/Research Talk, Neuropsychology, Meredith College

Consultant, Grad TA training 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 and Psychology & Neuroscience graduate students and others, 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 - 2020Ziwei Zhang, Class of 2020, Duke University

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 - 2019Sophie 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 - 2020Co-mentored with Brenda Yang, Duke University:

> Noah Schaffir, Class of 2021; Sydney Albert, Class of 2022; Thomas O'Connor, Class of 2020;

Taylor Albus, Class of 2020

Jessica Renee Bowen, Class of 2018, Rutgers-Newark; 2016

Mihika Gupta, Class of 2018, Rutgers-Newark

Professional Development:

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

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

2016 - 2017Founder of inaugural graduate/undergraduate student mentorship program for 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 Mentors: 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

Leadership roles:

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
2017 – 2019	Graduate Student Affairs Liaison, Psychology & Neuroscience, Duke University
2017 - 2018	Founder of Psychology & Neuroscience Women's Support Network, Duke University
	Co-organizer of the Center for Cognitive Neuroscience journal club, Duke University
2016 – 2018	Co-organizer for the graduate student recruitment weekend for Psychology & Neuroscience, Duke University
2014 – 2016	Discussion leader & member, Women in Science book club, Rutgers-Newark
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
Service roles:	

2020	Panelist, Graduate TA training workshop, Psychology and Neuroscience, Duke University
	Reviewer, TA Guidelines for Psychology and Neuroscience, Duke University
	Reviewer, Preparing Future Faculty Program, Duke University
	Panelist, Preparing Future Faculty Information Session, Duke University
	Presenter, Graduate Board of Visitors, Duke University
2018, 2019	Panelist on applying to graduate school, Psychology & Neuroscience, Duke University
2018	Presenter, Duke Institute for Brain Sciences External Advisory Board meeting
2017	Panelist on applying to graduate school, Neuroscience Majors Union, Duke University
	Video interview, Thompson Writing Program, The Graduate School, Duke University
	Planning committee member for Women in Science and Engineering, Duke University
2016, 2017	Organizer of talks by John Pearson, Ph.D. for the Center for Cognitive Neuroscience at Duke University ("Git, GitHub, and what your lab can gain from open science" and "Power analysis for the clueless")
2009 – 2013	Editorial Board Member, Passwords (literary magazine), Pomona College

### NATIONAL SERVICE

Ad-hoc Reviewer (alone and with advisor\*):

Journal of Experimental Psychology: Learning, Memory and Cognition • Cognitive Psychology\* • Journal of Experimental Psychology: Human Perception and Performance\* • 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

### **OUTREACH**

Writing:

2019 Supervised cognitive psychology writing for Duke Research Blog, Duke University

Innocent Until Proven Guilty? Well, That Depends by Casey Chanler

<u>6-Month-Old Brains Are Categorically Brilliant</u> by Jing Liu <u>A Mind at Rest Still Has Feelings</u> by Brynne O'Shea

Are People Stuck with Their Political Views? by Casey Holman Move Your Eyes and Wiggle Your Ears by Benjamin Fiszel

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 for the 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 Ebrem,

Sydney Albert, Noah Schaffir, and 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 Volunteer presenter, Graduate Women in Science & NC Girl Scouts, Meredith College

Lab coordinator of Summer Brain Camp, Rutgers-Newark

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, 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

#### PROFESSIONAL MEMBERSHIPS

American Psychological Association, Association for Psychological Science, Cognitive Neuroscience Society, Social and Affective Neuroscience Society, Society for

# Neuroscience, Sigma Xi Scientific Honor Society

## **TECHNICAL SKILLS**

Languages:

Familiarity with Arabic and French

Computer-based:

JavaScript, Python, Matlab (incl. Psychtoolbox), R, MTurk, E-Prime, PsychoPy, SPSS, JASP, BrainVoyager, FSL, Photoshop, InDesign, Illustrator, Microsoft Office