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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

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. <a href="https://doi.org/10.1177/0956797620904045">https://doi.org/10.1177/0956797620904045</a>
  Open access preprint available <a href="here">here</a>.
- 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 <a href="here">here</a>.
- 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 <u>here</u>.

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 <u>Newsweek</u>, <u>Science Daily</u>, <u>Forbes</u>, <u>The Daily Mail</u>, <u>Moneyish</u>, <u>Mic</u>, <u>New York Post</u>, <u>Neuroscience News</u>, and <u>more</u>

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 <u>Psychonomics Featured Content</u>

# 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 <a href="here">here</a>). 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 Experimental Psychology: Learning, Memory, and Cognition*). 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 dIPFC 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

2020 "Control-learning is shaped by domain-general and domain-specific associative

learning", Shenhav lab, Brown University

"Mindset: how, when, and where does it make a difference?" symposium at IMBES

conference in Montreal - rescheduled for 2021 due to COVID-19

# RESEARCH, TRAINING, & SERVICE GRANTS

2019 Germinator Grant (\$25,000), Duke Institute for Brain Sciences

Pls: Christina Bejjani & Tobias Egner

Co-ls: 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 Pls: 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
	Modules on conducting User Experience Research, Duke University
	These are being developed as part of my Bass Digital Education Fellowship.

2019 Introduction to Cognitive Psychology (Summer Term I), Duke University <a href="https://cogpsychduke2019.github.io">https://cogpsychduke2019.github.io</a>

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 Pl: Jesse Rissman, with Natalie De Shetler, Ph.D.
2011 – 2013	Departments of Neuroscience and Biology, Pomona College Research Assistant Pls: 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	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 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

Ad-hoc Reviewer (alone<sup>+</sup> and with advisor\*):

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, 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

<u>Are People Stuck with Their Political Views?</u> by Casey Holman <u>Move Your Eyes and Wiggle Your Ears</u> 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, 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, & 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

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 "<u>Deep, fast and shallow learning in humans and machines</u>", 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 Collaborator & Teacher

Topics: Teaching, Mentoring, & Research

Assoc. Prof. of the Practice of Psychology & Neuroscience

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John Pearson

Committee Member, Collaborator, & Teacher

Topics: Mentoring & Research

Assistant Prof. of Biostatistics & Bioinformatics

(919) 613-8338

john.pearson@duke.edu

Elizabeth Marsh

Committee Member & Collaborator Topics: Service, Mentoring, & Research Prof. of Psychology & Neuroscience

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Gregory Samanez-Larkin

Committee Member & TA Supervisor Topics: Teaching, Mentoring, & Research

Jack H. Neely Associate Prof.

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Elizabeth Tricomi

Post-bac Research Supervisor

Topics: Research

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