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

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 <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 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.****, 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 61st 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 42nd 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 60th 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 31st 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 26th

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 59th 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 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 25th 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 58th annual meeting of the Psychonomics Society, Vancouver, CA. 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 dIPFC and caudate. Poster presented by C.B. at the 24th 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 9th 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 23rd 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 22nd 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 42nd 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

Pls: 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 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 |
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| 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 rd 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. |
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| 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 Cua | ct Lacturas, and Damos |

Workshops, Guest Lectures, and Demos:

| 2019 | Athletics Tutor, Introduction to Cognitive Psychology, Duke University |
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| | 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 |
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| 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 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 | 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 |

| | 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 |
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| 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, 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 Ivengar"

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 |
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| 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 |
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| | 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

(919) 660-5647

(919) 613-8338

bridgette.hard@duke.edu

John Pearson Committee Member, Collaborator, & Teacher Topics: Mentoring & Research Assistant Prof. of Biostatistics & Bioinformatics

john.pearson@duke.edu

Elizabeth Marsh
Committee Member & Collaborator
Topics: Service, Mentoring, & Research
Prof. of Psychology & Neuroscience
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emarsh@psych.duke.edu

Gregory Samanez-Larkin
Committee Member & TA Supervisor
Topics: Teaching, Mentoring, & Research
Jack H. Neely Assoc. Prof.
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Elizabeth Tricomi
Post-bac Research Supervisor
Topics: Research
Assoc. Prof. of Psychology
(973) 353-3956
etricomi@psychology.rutgers.edu