

Hetvi Satish Doshi

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EDUCATION

Cornell University, Ithaca, NY 2020-*present*
PhD in Human Development
Relevant Field: Affective Neuroscience
Advisor: Adam Anderson, PhD

University of California, Los Angeles 2016-2020
BSc (Hons.) in Cognitive Science with a Specialization in Computing, *Cum Laude*
Honors Thesis: “*Appraisal in the 21st Century: Mapping the Dimensions Beneath Complex Social Emotions*”
Cumulative GPA: 3.8/4.0
Relevant Coursework: Behavioural Statistics, Research Design, Behavioural Neuroscience, Emotional Psychology

General GRE: 164 Verbal (94%); 163 Quantitative (82%); 5.0 Writing (92%)

AWARDS & HONOURS

Cornell Fellowship 2020-*present*
UCLA Dean’s Research Prize 2020
Dean’s Honors List 2016-2020
Undergraduate Research Scholars Program (\$6,000) 2019
PKU-UCLA Joint Research Institute Scholarship (\$3,500) 2018
Elsamma Thomas Gold Medal for 1st rank in IBDP school-wide 2016
DELF Scolaire pour Diplôme d’études en langue française 2013-2016
(Diploma with Excellence: A1, A2, B1)
International Award for Young People (Bronze and Silver) 2013-2016

PRESENTATIONS

Doshi, H., Gonzalez, M., Anderson, A. (Apr, 2021) The Ratatouille Moment: Effects of Nostalgia on Affective and Homeostatic Neural Pathways. Talk delivered at Neurosalon, Cornell University

Doshi, H., Gonzalez, M., Anderson, A. (Mar, 2021) The Ratatouille Moment: Effects of Nostalgia on Affective and Homeostatic Neural Pathways. Talk delivered at Departmental Brown Bags, Cornell University

Doshi, H., Cooper-White, M., Lieberman, M.D. (May, 2020) Appraisal in the 21st Century: Mapping the Dimensions of Beneath Social Emotion. Talk delivered at Undergraduate Research Week, University of California, Los Angeles

Doshi, H., Gan Y., Chen, Y., Zheng L. (Oct, 2018) Moderating Role of OXTR rs2254298 in the Influence of Family Cohesion on Future Orientation. Poster presented at the 9th Annual PKU-UCLA JRI Symposium, University of California, Los Angeles

Doshi, H., Gan Y., Chen Y., Zheng L. (Sept, 2018) Moderating Role of OXTR rs2254298 in the Influence of Family Cohesion on Future Orientation. Poster presented at the PKU-UCLA JRI Conference, Peking University, Beijing, China

RESEARCH EXPERIENCE

AFFECT AND COGNITION LAB
Cornell University

Sept 2020-*present*

The Ratatouille Moment

Feb 2021-*present*

Role: Principal Investigator

Principal Co-Investigator: Adam Anderson, PhD & Marlen Gonzalez, PhD

Study Scope: The goal of this neuroimaging study is to show that social nutrition (i.e. nostalgia) has a similar effect on the body and the brain as actual nutritional value. By examining the affective regulation of homeostasis as a function of energy, we aim to inform obesity interventions.

Responsibilities:

- Formulate a theory on the affective regulation of homeostasis
- Create personalized stimuli sets to capture nostalgic and comfort foods for individuals of two ethnic groups
- Fund MRI scanner time through grant submissions and fellowships (in progress)

The Olfaction Project

Sept 2020-*present*

Role: Doctoral Researcher

Principal Co-Investigator: Adam Anderson, PhD

Study Scope: The project aims to map *odoprints* - micro-network activity patterns in the olfactory system - to characterize scents and examine the biological mechanisms of scent modulation. Primary ROIs include the substantia nigra, dorsal raphe, and locus coeruleus. Odoprints will map the structural, character, associational, and hedonic qualities of a scent.

Responsibilities:

- Secure funding through collaboration with the International Flavors and Fragrance Inc.
- Design a study to capture biometric, behavioural, and neuroimaging data and submit an IRB for the same (in progress)

- Set-up an olfactometer to administer scents during scanning
- Collect and analyze all pilot and neuroimaging data
- Establish the odoprinting approach in the neuroscience community by writing manuscripts and presenting the research at conferences

SOCIAL AFFECTIVE NEUROSCIENCE LAB
University of California, Los Angeles

Aug 2019-Jun 2020

GIV/PRO Study

Role: Research Assistant

Principal Investigator: Naomi Eisenberger, PhD

Study Scope: This neuroimaging (fMRI) study investigates prosocial behaviour and its impact on health. The GIV part of this project is a cross-sectional study focusing on individuals' giving behaviour in healthy versus stressful situations. The PRO component is a longitudinal study to understand the development of prosocial behaviour in adolescents.

Responsibilities:

- Administer and assist with the completion of all behavioural tasks and MRI scans in a trial
- Involved in all steps of preparation for an experimental run, including MRI environment set-up
- Serve as a certified safety second in the MRI and control room
- Learn the mechanisms of and differences between MRI scans to observe for abnormalities

SOCIAL COGNITIVE NEUROSCIENCE LAB
University of California, Los Angeles

Nov 2018-Jun 2020

Appraisal in the 21st Century

Jun 2019-Jun 2020

Role: Independent researcher for Honors Thesis

Principal Investigator: Matthew D. Lieberman, PhD

Study Scope: The study aims to construct a new paradigm for measuring social emotions. The goal is to norm stimuli that evoke a strong emotional response consistently and repeatedly. The paradigm will then be used in a neuroimaging study to investigate the role of cognitive appraisal in eliciting an emotional reaction.

Responsibilities:

- Conduct a literature review to determine the aims and research design of the study
- Design the study (including the protocol, procedure, and all related materials) for experimentation
- Collect data by recruiting participants and research assistants
- Conduct all analyses and evaluate the findings
- Present the research and write a mock manuscript of the study (in progress)

Opinions in the Brain Study

Nov 2018-Jun 2020

Role: Research Assistant

Principal Investigator: Matthew D. Lieberman, PhD & Macrina C. White, MA

Study Scope: This neuroimaging study aims to understand how political messages are processed in the brain and the role of self-affirmation in this process. The goal is to determine whether self-affirmation increases acceptance of information counter to existing political beliefs.

Responsibilities:

- Administer and assist with the completion of all tasks by study participants
- Involved in all steps of preparation for an experimental run, including fNIRS set-up
- Clean pre-processing data and update study's progress using MS excel
- Learn functional near-infrared spectroscopy (fNIRS) data analyses

COMMERCIALLY SEXUALLY EXPLOITED YOUTH LAB

Nov 2018-Jun 2019

University of California, Los Angeles

Commercially Sexually Exploited Youth Study (CSEY Study)

Role: Research Assistant

Principal Investigator: Eraka Bath, MD & Sarah Gody, MSW

Study Scope: This multi-modal study aimed to evaluate Succeeding Through Achievement and Resilience (STAR) court's efficiency at reducing recidivism and providing resources to commercially sexually exploited youth (CSEY). We compared the population's well-being and criminal record before arrest to their life under the court's jurisdiction. This specialized court's efficiency was also measured by comparing it to standard courts in Los Angeles.

Responsibilities:

- Collected extensive data through complete case files of the population in LA county courthouses
- Organized collected data using Box and MS Excel and updated case completion logs
- Cleaned mental health and substance abuse data to prepare for a MANC
- OVA analysis
- Presented ongoing work at lab meetings and brainstormed next steps for data analysis
- Outlined the data analysis required for a paper evaluating the effect of comorbidity between substance use disorders and mental health illnesses on CSEY

TRAUMA AND RESILIENCE LAB

Summer 2018

Peking University, Beijing

Moderating Role of OXTR rs2254298 in the Influence of Family Cohesion on Future Orientation

Role: Independent Researcher under the PKU-UCLA Joint Research Institute (JRI) Summer Program

Principal Investigator: Yi-qun Gan, Ph.D.

Study Scope: The study investigated for a Gene x Environment interaction between rs2254298, an oxytocin receptor SNP (single nucleotide polymorphism), and family cohesion during adolescence on an individual's future-oriented behaviors, such as long-term planning and goal setting.

Responsibilities:

- Conducted a literature review to determine which genetic and environmental factors had been positively correlated with future orientation
- Preprocessed existing data to compile three alleles of the SNP and family cohesion for a hierarchical regression analysis
- Used SPSS to create hierarchical regression models and analyze the main effects and interactions between the SNP and family cohesion on future orientation
- Created and presented a poster on the study's findings at two JRI Symposiums

UCLA PSYCHIATRY LAB

Apr 2017-Apr 2018

University of California, Los Angeles

UCLA Integrated Substance Abuse Program (UCLA-ISAP)

Role: Research Assistant

Principal Investigator: David Farabee, Ph.D. & Elizabeth Hall, Ph.D.

Study Scope: The program evaluated the efficiency of state-provided mental health services in reducing recidivism of parolees with serious mental health illnesses. We documented their life immediately after release through monthly phone interviews over a one year period.

Responsibilities:

- Conducted monthly phone interviews and weekly follow-ups with recent parolees to evaluate their mental health, lifestyle, and everyday struggles
- Organized the data systematically in different locations
- Located missing study participants by navigating the California jail system and contacting parole agents
- Revised the filing system for better maintenance of participant confidentiality and privacy

INTERNATIONAL BACCALAUREATE RESEARCH PROJECT

Jun 2014-Jun 2016

Good Shepherd International School, Ootacamund (India)

A meta-analysis of Cognitive Behavioural Therapy and Pharmacotherapy for treating Alcoholism**Role:** Independent researcher under faculty guidance**Study Scope:** This meta-analysis focused on studies administering either Cognitive Behavioural Therapy, Pharmacotherapy, or combined CBT and Pharmacotherapy on patients with severe Alcoholism. The analysis evaluated the efficiency of these treatments by measuring relapses and reduction in withdrawal symptoms.**Responsibilities:**

- Conducted a literature review to narrow the scope of the analysis to three specific treatments
- Evaluated the results and methodology of 15 studies for the meta-analysis
- Drafted and submitted the meta-analysis as an extended essay to the International Baccalaureate Diploma Programme

Investigation of the Serial Position Effect in Memory - A replication of Murdock (1962)**Role:** Independent researcher under faculty guidance**Study Scope:** This simple study aimed to replicate Murdock (1962) results in a classroom setting. The study investigated the serial position effect in memory with an emphasis on the primacy and recency effect.**Responsibilities:**

- Outlined the existing literature on the topic to understand the strength of the findings
- Partially replicated Murdock's study design and changed it to a 2x2 within-subjects and prepared all materials necessary for experimentation (e.g. informed consent, word lists, study environment)
- Independently carried out trials on 23 high school students
- Analyzed all data using MS excel
- Drafted a research paper on the findings and submitted for the International Baccalaureate Diploma Programme

RELEVANT EXPERIENCE

Cultural Fellow

May 2021-present

Big Red Barn, Cornell University

- Serve as the only cultural fellow for Cornell's Graduate and Professional Student Life Organization (the Barn)

- Collaborate with Graduate student groups, the community, and campus offices to present a monthly cultural program, including but not limited to educational cultural celebrations, and international holidays and festivals
- Plan for and track expenses for programming and stay within assigned budget

Psychology and Human Development Undergraduate Mentor

Mar 2021-*present*

Cornell University

- Mentor three undergraduate students and help them find internships, explore career options, and write better applications
- Attend bi-weekly mentor-mentee meetings and monthly program get-togethers
- Assimilate and distribute professional development resources

Graduate Studies Committee, Alternate

Nov 2020-*present*

Cornell University

- Serve as an alternate to the present members of the GSC in the Human Development Program.
- Arrange social events to further integrate students with the department, create a community, and provide a safe space for informal interactions.
- Provide resources and networks in various academic fields through panel discussions, brown bags, and skills presentations.

BruinSynaptoGenesis, Co-Chair of Advisory Committee

Feb 2021-*present*

Founder and President

Mar 2018-Jun 2020

University of California, Los Angeles

- Founded an interdisciplinary networking organization for psychology majors pursuing non-academic careers. We provide skills and networks necessary to gain experience in their field of interest. We increase awareness of the diversity and applicability of a psychology degree.
- Develop the organization's vision and mission and consistently align all activities towards this goal
- Lead a board of directors to host networking events, graduate mentorship programs, internships and workshops for our selective member pool
- Conduct resume building and networking skills workshops
- Host networking nights, speaker events, and career fairs to increase internship access

Resilient Peer Network, Resilient Peer Level 1

Apr 2019-Jun 2020

UCLA Campus and Student Resilience

- Train in individual Cognitive Behaviour Therapy (iCBT) administration and skills
- Participate in support groups to understand how to guide patients through the program
- Increased awareness of Depression and the Depression Grand Challenge around campus

Project RISHI, Women's Empowerment Project

Apr 2017-Apr 2019

Director of Finance

Apr 2018-Apr 2019

UCLA Chapter

- Worked with a team of UCLA students to increase menstrual hygiene awareness and conduct a village-wide extensive census in Vadamanappakkam, Chennai, India
- Raised funds for ongoing projects in the village through fundraising at UCLA and donations from the Indian community in Los Angeles

- Maintained organization's non-profit status and tracked the organization's expenditures

BruinMUN, UNWomen Chair

Mar 2018-Nov 2018

Model United Nations at UCLA

- Created a handbook on the issues of global sex trafficking, with an emphasis on minors, and prevention of forced labour and sexual violence in refugee camps
- Stimulated the United Nations General Assembly to foster diplomatic discussions on these topics between high school delegates
- Discussed the efficiency of realistic resolutions, drafted by students, at resolving the issues

AISEC Global Volunteer Program in Egypt, Summer Intern (Damietta)

Summer 2017

Damietta, Egypt

- Travelled to fifteen cities over the span of two months to document the cultural and natural landscape of the country in an attempt to revive the country's tourism post Arab Spring

ADDITIONAL SKILLS

- Data management and analysis in Fathom, SPSS, Microsoft Excel, Qualtrics, MatLab and REDCap
- Proficiency in C++ and R, Competent in MatLab, Elementary skills in Python and PsychoPy
- Fluency in English, Hindi, Gujarati, and French; Elementary understanding of Mandarin and Egyptian Arabic
- Reliable in the administration of CPR and first-aid
- Certified in HIPAA and CITI Behavioural, Biomedical, IRB, and RCR components
- Multi-cultural understanding gained through extensive travelling to over 25 countries