Amna Hyder

Technical Researcher, Entrepreneur and Educator | amnahyder.com
hyder.amna@gmail.com | 415.886.5841 | San Francisco

EDUCATION

UNIVERSITY OF BRITISH COLUMBIA
MSc in Neuroscience
April 2020 (expected)

CCNSS (2018)
Computational & Cognitive Neuroscience Summer School
Full Scholarship sponsored by google DeepMind | ccnss.org/ccn-2018

MCMASTER UNIVERSITY
BSc in Integrated Science
May 2014 | Hamilton, ON
Concentration in Physics and Astronomy
Summa cum laude & Valedictorian

TEACHING

CIRTL Associate
Qualified in the Center for the Integration of Research, Teaching and Learning
TA for Math | Ontario School Board
TA for Psychology | UBC
200+ hours tutoring physics & math

AWARDS

Faculty of Medicine Graduate Award ($6,500); Cordula & Gunter Paetzold Fellowship 2017 ($12,000); Cordula & Gunter Paetzold Fellowship 2018 ($6,000); President's Award 2010 ($2000); For more see amnahyder.com

SKILLS

PROGRAMMING
Over 5000 lines:
Matlab • SQL • R • LaTeX
Over 1000 lines:
Python/Jupyter • Fortran • VBA

TOOLS
BESA (EEG/fMRI) • Photoshop • Illustrator • Lightroom

SIDE PASSIONS

Photography
Photograph weddings & eshoots
The Citizens Foundation
Assist. Manager of campaign raising $\$\frac{3}{4}$ million annually & other duties
Students Teaching Students
Founder of Teaching Program | Guest Lectures | stsontario.org

WORK EXPERIENCE

BABYCHILD | Founder and UX Lead
ShopBabyChild.com & NaturallyHenna.com | Oct 2018 - current
- $627,000 revenue in the first year. Profit of $38,000 within 6 months
- Designed and developed several products. Hired and trained 4 employees
- Responsbile for UX research & design, managed shipping & fulfillment
- Take care of all the marketing, strategy and product photography

ACTION PERCEPTION LAB | Research Assistant
Sept 2016 – Oct 2018 | UBC
- Managed lab website & finances during graduate studies.
- Responsible for overseeing & analyzing data for multiple projects in the lab

SCOTIABANK | Risk Modeling Analyst
Oct 2014 – Sept 2016 | Toronto, Ontario
- Helped develop risk models to predict a customer's risk of default for various products in SQL
- Includes 8 month research break from Sept 2015 to April 2016

RESEARCH

UBC BRAIN DYNAMICS LAB | Researcher
Under the supervison of Dr. Tipper and Dr. Galea
Thesis investigates differences in the mirroring and mentalizing systems using several computational methods applied to EEG data. Thesis available at amnahyder.com/research

UBC ACTION PERCEPTION LAB | Researcher
Under the supervison of Dr. Virji-Babul
Investigate alterations in graph-theory metrics of EEG scans in several conditions (concussions, cerebral palsy & "chemo-brain"). Synchronized two EEGs & programmed a game to study between-brain coupling. Helped develop a machine learning to identify concussions using EEG (signal processing & ML)

UBC Psychiatry | Research Assistant
Under the supervision of Dr. Birmingham
Investigated how neurofeedback could be used to help with eating disorders (BCI)

MCMASTER MATH DEPARTMENT | Research Assistant
Under the supervision of Dr. Min-Oo
Investigated how first few eigenfunctions of combinatorial Laplacian can be used to reduce dimensionality of higher dimensional data sets

CONFERENCE PRESENTATIONS

Hyder, A., and Virji-Babul, N. (2018, June). "Increased network connectivity across all frequency bands in adolescents with concussion". Organization for Human Brain Mapping, OHBM. Singapore.
Hyder, A., and Virji-Babul, N. (2018, May). "The Effect of Social Context on Functional Connectivity and Between-Brain Coupling". GF Strong Rehab Research Day, University of British Columbia, Vancouver, BC. (60+ presentation attendees)
Hyder, A., and Maung, M. (2014, April). "Using the First Three Eigenfunctions of the Combinatorial Laplacian for Dimensionality Reduction". Presented at the Synthesis Symposium, McMaster University, Hamilton, ON. (30+ presentation attendees)

PUBLICATIONS

Publications listed in full CV located at amnahyder.com