DWIJA PARIKH

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EDUCATION

University of Houston   2017-2022 (expected)

B.S. Honors in Computer Science, B.S. in Mathematics (Data Science Option)

Minor: Data & Society
Senior Honors Thesis: Preprocessing for Code-Switching Models

RESEARCH EXPERIENCE

Pharis Fellowship   June 2021 - August 2021
Undergraduate Research Fellow

· Part of a interdisciplinary research fellowship on data science approaches to investigate Social Determinants of Health (SDoH)
· Executed an applied data science project on modeling cancer patient pathways by leveraging network analysis tools

UH Data Analytics and Intelligent Systems Lab   May 2021 - Present
Undergraduate Research Assistant, supervised by Dr. Christoph Eick

· Independent research study on Deep Learning in Knowledge Graphs
· Systemic review on Knowledge Graphs in AI

Summer Undergraduate Research Fellow   May 2020 - August 2020
Undergraduate Research Fellow, supervised by Dr. Thamar Solorio

· Summer research project on analyzing and interpreting neural networks for named entity recognition

RiTUAL Lab at the University of Houston   August 2018 - Present
Undergraduate Research Assistant, supervised by Dr. Thamar Solorio

· Developed normalization and back-transliteration methods for code-switched data
· Analyzed performance of pre-trained neural models at NLP tasks (language identification, named entity recognition)
· Assisted with developing a website for a centralized benchmark for linguistic code-switching evaluation (LinCE)
· Performed named entity recognition on code-switched Twitter data

TEACHING EXPERIENCE

Teaching Assistant   Fall 2020, Spring 2021, Fall 2021
Introduction to Computer Science (COSC 1306, COSC 1336)   *University of Houston*

· Duties include teaching weekly discussion sessions, holding office hours, developing course material, and grading

LEADERSHIP

Photography Student Association   2018-Present
Vice President and Co-Founder   *University of Houston*

· Founded the Photography Student Association at University of Houston to foster a community of photography enthusiasts

· Duties include leading meetings, planning club activities, publishing zines, and running club website

SKILLS

Software	Python (PyTorch, NumPy, SciPy, Matplotlib), C/C++, R, Java, SQL, Matlab
Languages	English, Hindi, Gujarati

ACTIVITIES AND MEMBERSHIPS

CougarCS, CSGirls, Pi Mu Epsilon (UH chapter of math honor society), IEEE-Eta Kappa Nu (IEEE Honor Society), Metropolitan Volunteer Program, CoogRadio

PUBLICATIONS

Dwija Parikh and Thamar Solorio. *Normalization and Back-transliteration for Code-Switched Text* in CALCS at NAACL 2021.

Dwija Parikh. *Preprocessing for Code-Switching Models* (Senior Honors Thesis in progress, University of Houston)

VOLUNTEER EXPERIENCE

Houston Public Library   2019-2020
Volunteer Libr   *Houston, TX*

Houston Food Bank   2018-2019
Volunteer   *Houston, TX*

Spreading Smiles Charitable Trust   2017
Volunteer Teacher   *Vadodara, India*