Souti Chattopadhyay

Curriculum Vitae

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941 Bloom Walk, Salvatori Computer Science Center

Research interests Human-Computer Interaction. Software Engineering. Al for Societal Good.

Cognitive Processes in Humans. Accessibility. Inclusive Design. Intelligent

Interfaces. Social Computing.

Employment University of Southern California Los Angeles, California

WiSE Gabilan Assistant Professor 2022 – Present

Thomas Lord Department of Computer Science

Education Oregon State University Corvallis, Oregon

PhD in Computer Science 2016 - 2022

Department of Electrical Engineering and Computer Science

Awards WiSE Gabilan Assistant Professorship 2023

Grants DARPA Artificial Intelligence Exploration (AIE): Friction for Accountability in

Conversational Transactions 2023

USC + Amazon Center on Secure & Trusted ML 2023

Publications NomNom: Explanatory Function Names for Program Synthesizers

Amirmohammad Nazari, Souti Chattopadhyay, Swabha Swayamdipta,

Mukund Raghothaman.

International Conference on Software Engineering, 2024

Poster

Understanding and Facilitating Sensemaking in Computational Note-

Zixuan Feng, Souti Chattopadhyay, Gonzalo Ramos, Titus Barik, Anita

Sarma

Computer Supported Cooperative Work, CSCW

Under Submission

Designing adaptive interventions for human-aware autonomous systems

Vidisha Kudalkar, Anirudh Alameluvari, Souti Chattopadhyay, Jyotirmoy

Deshmukh.

Humans in Cyber-Physical Systems, 2023.

Workshop Paper

Cognitive Biases in Software Development

Souti Chattopadhyay, Nicholas Nelson, Audrey Au, Natalia Morales, Christopher Sanchez, Rahul Pandita, Anita Sarma *Communications of the ACM, Research Highlights, 2022.*Article

Developers Who Vlog: Dismantling Stereotypes through Community and Identity

Souti Chattopadhyay, Denae Ford, Thomas Zimmermann *Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*, 2021.

Reel Life vs. Real Life: How Software Developers Share Their Daily Life through Vlogs

Souti Chattopadhyay, Thomas Zimmermann, Denae Ford *The ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE)*, 2021.

Supporting Code Comprehension via Annotations: Right Information at the Right Time and Place

Marjan Adeli, Nicholas Nelson, **Souti Chattopadhyay**, Hayden Coffey, Austin Henley, Anita Sarma

IEEE Symposium on Visual Languages and Human-Centric Computing (VLHCC), 2020.

A Tale from the Trenches: Cognitive Biases and Software Development Souti Chattopadhyay, Nicholas Nelson, Audrey Au, Natalia Morales, Christopher Sanchez, Rahul Pandita, Anita Sarma International Conference on Software Engineering (ICSE), 2020.

ACM Distinguished Paper

What's Wrong with Computational Notebooks? Pain Points, Needs, and Design Opportunities

Souti Chattopadhyay, Ishita Prasad, Austin Z Henley, Anita Sarma, Titus Barik

CHI Conference on Human Factors in Computing Systems (CHI), 2020.

SIGCHI Honourable Mention Award

Mental Models of Mere Mortals with Explanations of Reinforcement Learning

Andrew Anderson, Jonathan Dodge, Amrita Sadarangani, Zoe Juozapaitis, Evan Newman, Jed Irvine, **Souti Chattopadhyay**, Matthew Olson, Alan Fern, Margaret Burnett

ACM Transactions on Interactive Intelligent Systems (TiiS), 2020. Journal Paper

Explaining reinforcement learning to mere mortals: An empirical study

Andrew Anderson, Jonathan Dodge, Amrita Sadarangani, Zoe Juozapaitis, Evan Newman, Jed Irvine, Souti Chattopadhyay, Alan Fern, Margaret Burnett *arXiV preprint*, 2019.

Latent Patterns in Activities: A Field Study of How Developers Manage Context

Souti Chattopadhyay, Nicholas Nelson, Yenifer Ramirez Gonzalez, Annel Amelia Leon, Rahul Pandita, Anita Sarma

International Conference on Software Engineering (ICSE), 2019.

Context in Programming: An Investigation of How Programmers Create Context

Souti Chattopadhyay, Nicholas Nelson, Thien Nam, McKenzie Calvert, Anita Sarma

Cooperative and Human Aspects of Software Engineering (CHASE), 2018. Workshop Paper

What makes a task difficult? An empirical study of perceptions of task difficulty

Rafael Leano, **Souti Chattopadhyay**, Anita Sarma *Visual Languages and Human-Centric Computing (VL/HCC)*, 2017. Short Paper

Context in Exploratory Programming: Towards a Theoretical Framework

Souti Chattopadhyay

Visual Languages and Human-Centric Computing (VL/HCC), 2017. Doctoral Symposium

Teaching

CSCI 499: Introduction to Human-Computer Interaction

Spring 2024

CSCI 699: User Experience - Methods of Research and Analysis

Spring 2024

CSCI 699: Human Subject Research in Software Systems

Spring 2023

Student Supervision

PhD Students

Zeinabsadat (Athena) Saghi

Fall 2023 -

Run Huang Fall 2023 -

Sadra Sabouri Halestani	Fall 2023 -
Philipp Eibl	Fall 2023 -

Masters' Students

Anirudh Alameluvari Spring 2023 2023 - Fall 2023 Katie Foss Spring 2023 - Fall 2023

Undergraduate' Students

David Aoyama Spring 2023 -Katie Foss Spring 2023 - Fall 2023

Service Program Committee

Visual Languages and Human-Centric Computing (VL/HCC)
Mining Software Repositories (MSR)
Cooperative and Human Aspects of Software Engineering (CHASE)

Reviewer

Human Factors in Computing Systems (CHI)
Mining Software Repositories (MSR)
Cooperative and Human Aspects of Software Engineering (CHASE)
IEEE Transactions on Software Engineering (TSE)
ACM Transactions on Software Engineering and Methodology (TOSEM)
ACM Transactions on Interactive Intelligent Systems (TiiS)

Outreach and Mentoring

Center for Undergraduate Research in Viterbi Engineering (CURVE) Undergraduate Mentoring

Saturday Academy's Apprenticeships in Science and Engineering K-12 Mentoring