

COMPUTER SCIENCE P.H.D CANDIDATE INTERESTED IN THE APPLICATION OF NLP METHODS IN COMPUTATIONAL SOCIAL SCIENCE

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Education

GESIS - Leibnitz Institute for Social Sciences and University of Koblenz

Cologne, Germany

P.H.D IN COMPUTER SCIENCE

2018 - Present

Advisor: Prof. Claudia Wagner

Indraprastha Institute of Information Technology (IIIT-D)

New Delhi, India

M.S IN COMPUTER SCIENCE

2015 - 2017

ADVISOR: PROF. PONNURANGAM KUMARAGURU (PK)

GPA: 8.67/10

Vellore Institute of Technology (VIT)

Vellore, India

B.S IN COMPUTER SCIENCE

2010 - 2014

GPA: 9.1/10

Publications

Preprints

A Total Error Framework for Digital Traces of Humans

2019

Indira Sen, Fabian Floeck, Katrin Weller, Bernd Weiss, and Claudia Wagner. ArXiv preprint, arXiv:1907.0822

Conference Articles

Empowering First Responders through Automated Multimodal Content Moderation

2018

Divam Gupta, **Indira Sen**, Niharika Sachdeva, Ponnurangam Kumaraguru, Arun Balaji Buduru. IEEE International Conference on Cognitive Computing

Best Paper Award

Worth its Weight in Likes: Towards Detecting Fake Likes on Instagram

2018

Indira Sen, Anupama Aggarwal, Shiven Mian, Siddharth Singh, Ponnurangam Kumaraguru, Anwitaman Datta. WebSci 2018, short paper

Workshop Articles

A Twitter Corpus for Hindi-English Code Mixed POS Tagging

2018

2018

Kushagra Singh, **Indira Sen**, Ponnurangam Kumaraguru.

WORKSHOP ON NATURAL LANGUAGE PROCESSING FOR SOCIAL MEDIA (SOCIALNLP), IN CONJUNCTION WITH ACL

Data Paper

Language Identification and Named Entity Recognition in Hinglish Code Mixed Tweets

Kushagra Singh, **Indira Sen**, Ponnurangam Kumaraguru. ACL Student Research Workshop

Experience _____

Precog Research Lab, IIIT Delhi

New Delhi, India

RESEARCH ASSOCIATE. ADVISORS: PROF. PONNURANGAM KUMARAGURU AND PROF. ARUN BALAJI BUDURU

Dec 2017 - Aug 2018

Jun 2017- Aug 2017

- Landscaping the fake like marketplace on Instagram and characterizing fake likers, and their attack vectors.
- Detecting Multimodal Hatespeech on Social Media

CHILI Lab, École polytechnique fédérale de Lausanne

Lausanne, Switzerland

Worked on inferring dependencies between EPFL courses based on Concept Mining and grading patterns
 Nanyang Technological University

SUMMER INTERN, ADVISOR: PROF. PIERRE DILLENBOURG

Singapore

RESEARCH ASSISTANT, ADVISOR: PROF. ANWITAMAN DUTTA

Jan 2017- May 2017

• Master's Thesis: Worked on detecting fake engagement on Instagram.

• One of the 50 selected out of 2000+ applicants worldwide, via Summer@EPFL.

JANUARY 25, 2020 INDIRA SEN · CV

Teaching, Mentorship and Academic Service

Translation Tutorial on the Total Error Paradigm for Social Inferences

Barcelona, Spain

FAT* 2020 (UPCOMING) Jan 2020

- We will first introduce the audience to the concepts and guidelines of the TSE and how they are applied by survey practitioners in the social sciences.
- We will introduce our own conceptual framework to diagnose, understand, and avoid errors that may occur in studies that are based on digital traces of humans, leveraging the systematic approach of the TSE and mapping its concepts to digital trace settings where applicable.

Introduction to Python Cologne, Germany

University of Cologne Oct, 2019

- · Interactive, hands-on two-day lecture series for teaching introductory python concepts to social science doctoral candidates
- · Received highly positive feedback

Teaching Assistant

New Delhi, Indira

 IIIT Delhi
 2015 - 2017

- Linear Algebra
- · Foundations of Computer Security

Thesis Mentor New Delhi, India

IIIT DELHI

- Vani Agarwal. Master's Thesis. Improving Content Moderation through Co-Training
- · Kushagra Singh. Bachelor's Thesis. Information Extraction Tools for Code-Mixed Hindi-English Social Media Content

EuroCSS 2018 Cologne, Germany

STUDENT VOLUNTEER Dec, 2018

CSCW 2019 May, 2019

STUDENT REVIEWER

• Reviewed a paper as a part of the CSCW Student Reviewer Mentorship program under the mentorship of a senior reviewer.

Honors & Awards

2019	Travel Grant , For attending Summer Institute in Computational Social Science (SICCS), Germany	Bamberg, Germany
2017	TA Excellence Award, Foundations of Computer Security	IIIT-Delhi, India
2015	Dean's Merit List, For Academic Performance	IIIT-Delhi, India
2016	bean's Merit List, For Academic Performance	III I-Deli II, II lala
2015	GATE Scholarship , Scholarship for Master's Studies	
2011		
2012	Merit Scholarship, For Outstanding Academic Achievement	VIT, Vellore
2013	ment scholarship, for outstanding Academic Achievement	vii, velloie
2014		
2014	Finalist, Stanford Biodesign Competetion	New Delhi, India

Skills

Programming

Python, R, Java, C++, C, MongoDB, SQL, Bash, Javascript,

Libraries/Tools

scikit-learn, pytorch, tensorflow, pandas, NLTK, NetworkX