

# Mainack Mondal

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## RESEARCH INTERESTS

Security & privacy, Usability, Applied machine learning & data mining, Internet measurements, Networked system design

## EDUCATION

- 09/2010 – 11/2017 **Doctor of Philosophy** in Computer Science  
Max Planck Institute for Software Systems, Saarbrücken and Kaiserslautern, Germany  
Thesis: *Understanding & Controlling User Privacy in Social Media via Exposure*  
Advisor: Krishna P. Gummadi
- 07/2005 – 07/2010 **Bachelor of Technology and Master of Technology** in Computer Science and Engineering  
Indian Institute of Technology, Kharagpur  
Thesis: *Cryptanalysis of Ciphers Based on AES Structure*  
Advisors: Debdeep Mukhopadhyay and Abhijit Das

## EMPLOYMENT HISTORY

- 07/2019 – Present **Assistant Professor**  
Department of Computer Science and Engineering  
IIT Kharagpur
- 01/2019 – 06/2019 **Postdoctoral Researcher**  
Cornell Tech, New York City, USA  
Mentor: Helen Nissenbaum  
Research topic: Understanding inappropriate data flows in smartphone applications
- 12/2017 – 12/2018 **Postdoctoral Researcher**  
University of Chicago, Chicago, USA  
Mentor: Blase Ur  
Research topic: Improving Usability of Retrospective Access Management in Online Archives
- 09/2010 – 11/2017 **Ph.D. Candidate**  
Max Planck Institute for Software Systems, Saarbrücken and Kaiserslautern, Germany

## HONORS, AWARDS AND GRANTS

- 2022 Awarded Leibniz fellowship by L3S Research Center and Leibniz University, Hannover
- 2021 Best Reviewer award in ICWSM'20, ICWSM'21
- 2020 Awarded "People's Expectations and Experiences with Digital Privacy research" grant from Facebook
- 2020 Awarded \$5,000 in GCP credits as research grant from Google
- 2020 UKIERI-DST Partnership Development grant for organizing workshop titled "Engineering Privacy Aware Urban Scale Cyber Physical Systems" (*Amount: INR 8.19 lakh*)
- 2017 Ted Nelson Award Nominee, HT'17
- 2014 Distinguished Paper Award, SOUPS'14
- 2011 Third prize, student research competition, SIGCOMM'11
- 2010 Graduate Student Fellowship, Max Planck Society

## REFEREED CONFERENCE PUBLICATIONS

- ICWSM'23 **“Dummy Grandpa, do you know anything?”: Identifying and Characterizing Ad hominem Fallacy Usage in the Wild**  
U. Patel, A. Mukherjee, M. Mondal  
ICWSM, 2023
- EuroUSEC'22 **What Cookie Consent Notices Do Users Prefer: A Study In The Wild**  
A. K. Singh, N. Upadhyaya, A. Seth, X. Hu, N. Sastry, M. Mondal  
EuroUSEC, 2022
- HCI'22 **Designing to Fight Pandemics: A Review of Literature and Identifying Design Patterns for COVID-19 Tracing Apps**  
I. Criddle, A. Hardy, G. Smith, T. Ranck S. Poddar, M. Mondal, X. Page  
HCI, 2022
- ICWSM'22 **Winds of Change: Impact of COVID-19 on Vaccine-related Opinions of Twitter users**  
S. Poddar, M. Mondal, J. Misra, N. Ganguly, S. Ghosh  
ICWSM, 2022
- SEC'22 **Understanding and Improving Usability of Data Dashboards for Simplified Privacy Control of Voice Assistant Data**  
V. Sharma, M. Mondal  
Usenix Security, 2022
- SEC'22 **Empirical Understanding of Deletion Privacy: Experiences, Expectations, and Measures**  
M. Minaei, M. Mondal, A. Kate  
Usenix Security, 2022
- WebSci'21 **CCCC: Corraling Cookies into Categories with CookieMonster**  
X. Hu, N. Sastry, M. Mondal  
WebSci, 2021
- NDSS'21 **Cloaking Large-Scale Damaging Deletions on Social Platforms**  
M. Minaei, S. C. Mouli, M. Mondal, B. Ribeiro, A. Kate  
NDSS, 2021
- ICWSM'21 **Perceptions of Retrospective Edits, Changes, and Deletion on Social Media**  
G. S. Yilmaz, F. Gasaway, B. Ur, M. Mondal  
ICWSM, 2021
- HT'20 **Anonymity Effects: A Large-Scale Dataset from an Anonymous Social Media Platform**  
M. Mondal, D. Correa, F. Benevenuto  
Hypertext, Virtual event, USA, July 2020
- CCS'19 **Moving Beyond Set-It-And-Forget-It Privacy Settings on Social Media**  
M. Mondal, G. S. Yilmaz, N. Hirsch, M. T. Khan, M. Tang, C. Tran, C. Kanisch, B. Ur, and E. Zheleva  
CCS, London, UK, October 2019
- CCS'19 **Oh, the Places You've Been! User Reactions to Longitudinal Transparency About Third-Party Web Tracking and Inferencing**  
B. Weinschel, M. Wei, M. Mondal, E. Choi, S. Shan, C. Dolin, M. L. Mazurek, and B. Ur  
CCS, London, UK, October 2019
- HT'17 **A Measurement Study of Hate Speech in Social Media**  
M. Mondal, L. A. Silva, and F. Benevenuto  
Hypertext, Prague, Czech Republic, July 2017
- SOUPS'16 **Forgetting in Social Media: Understanding and Controlling Longitudinal Exposure of Socially Shared Data**  
M. Mondal, J. Messias, S. Ghosh, K. P. Gummadi, and A. Kate  
SOUPS, Denver, CO, USA, June 2016

- ICWSM'15 **The Many Shades of Anonymity: Characterizing Anonymous Social Media Content**  
D. Correa, L. A. Silva, **M. Mondal**, F. Benevenuto, and K. P. Gummadi  
ICWSM, Oxford, UK, May 2015
- SOUPS'14 **Understanding and Specifying Social Access Control Lists** (distinguished paper award)  
**M. Mondal**, Y. Liu, B. Viswanath, K. P. Gummadi, and A. Mislove  
SOUPS, Menlo Park, CA, USA, July 2014
- CSCW'14 **Deep Twitter Diving: Exploring Topical Groups in Microblogs at Scale**  
P. Bhattacharya, S. Ghosh, J. Kulshrestha, **M. Mondal**, M. B. Zafar, N. Ganguly, and K. P. Gummadi  
CSCW, Baltimore, MD, USA, February 2014
- CoNEXT'12 **Defending against large-scale crawls in online social networks**  
**M. Mondal**, B. Viswanath, A. Clement, P. Druschel, K. P. Gummadi, A. Mislove, and A. Post  
CoNEXT, Nice, France, December 2012
- EuroSys'12 **Canal: Scaling social network-based Sybil tolerance schemes**  
B. Viswanath, **M. Mondal**, K. P. Gummadi, A. Mislove, and A. Post  
EuroSys, Bern, Switzerland, April 2012
- VLSID'10 **Pinpointing Cache Timing Attacks on AES**  
C. Rebeiro, **M. Mondal**, and D. Mukhopadhyay  
VLSID, Bangalore, India, January 2010

#### JOURNAL PUBLICATIONS

- PoPETS'19 **Lethe: Conceal Content Deletion from Persistent Observers**  
M. Minaei, **M. Mondal**, P. Loiseau, K. P. Gummadi, and A. Kate  
Proceedings on Privacy Enhancing Technologies (PoPETs), vol. 2019, no. 1, pp. 206–226, 2019
- THAM'18 **Characterizing Usage of Explicit Hate Expressions in Social Media**  
**M. Mondal**, L. A. Silva, D. Correa, and F. Benevenuto  
New Review of Hypermedia and Multimedia (THAM), vol. 24, no. 2, pp. 110–130, June 2018
- IJAESAM'17 **Managing Longitudinal Exposure of Socially Shared Data on the Twitter Social Media**  
**M. Mondal**, J. Messias, S. Ghosh, K. P. Gummadi, and A. Kate  
International Journal of Advances in Engineering Sciences and Applied Mathematics (IJAESAM), vol. 9, no. 4, pp. 238–257, December 2017
- IEEE IC'17 **Longitudinal Privacy Management in Social Media: The Need for Better Controls**  
**M. Mondal**, J. Messias, S. Ghosh, K. P. Gummadi, and A. Kate  
IEEE Internet Computing, vol. 21, no. 3, pp. 48–55, May-June 2017

#### REFEREED WORKSHOP AND OTHER SHORT PUBLICATIONS

- ASONAM'22 **Understanding the Impact of Awards on Award Winners and the Community on Reddit**  
A. Tulasi, **M. Mondal**, A. B. Buduru, P. Kumaraguru.  
ASONAM, Istanbul, Turkey, November 2022
- CI'19 **Using Long-Lived Facebook Accounts to Understand Implicit Norms of Consent in Contextual Integrity**  
**M. Mondal**, Z. Jin, T. Babaian, X. Page, and B. Ur  
Symposium on Applications of Contextual Integrity, Berkley, CA, USA, August 2019
- CI'18 **Enforcing Contextual Integrity With Exposure Control**  
**M. Mondal**, and B. Ur  
Symposium on Applications of Contextual Integrity, Princeton, NJ, USA, September 2018
- HILDA'18 **Draining the Data Swamp: A Similarity-based Approach**  
W. Brackenbury, R. Liu, **M. Mondal**, A. Elmore, B. Ur, K. Chard, M. J. Franklin.  
HILDA, Houston, TX, June 2018

- USEC'14 **Beyond Access Control: Managing Online Privacy via Exposure**  
M. Mondal, P. Druschel, K. P. Gummadi, and A. Mislove  
USEC, San Diego, CA, USA, February 2014
- WWW'12 **Simplifying Friendlist Management**  
Y. Liu, B. Viswanath, M. Mondal, K. P. Gummadi, and A. Mislove  
WWW Demo Session, Lyon, France, April 2012
- WISec'10 **TweLEX: A tweaked version of the LEX stream cipher**  
M. Mondal, A. Chakraborty, N. Dutta, and D. Mukhopadhyay  
WISec, Nijmegen, the Netherlands, November 2010

#### INVITED TALKS

- 2020 Invited lecture in Privacy and Security in Online Social Media course, IIIT Delhi
- 2019 *Moving Beyond Set-It-And-Forget-It Privacy Settings on Social Media*, Kings College, London
- 2017 Two guest lectures in social computing course, IIT Kharagpur
- 2017 *Longitudinal Privacy*, Privaski, Correncon-en-Vercors, France
- 2017 *Double-edged Swords: The Good and the Bad of Privacy and Anonymity in Social Media*, International Workshop on Social Media World Sensors (SIDEWAYS-2017), Prague, Czech Republic
- 2015 *Managing user privacy in online social networks*, IIT Hyderabad, India
- 2015 *Journey through the nobody's world*, ICWSM Science slam, Oxford, UK

#### CONFERENCE AND WORKSHOP TALKS

- HT'20 *Anonymity Effects: A Large-Scale Dataset from an Anonymous Social Media Platform*
- CCS'19 *Moving Beyond Set-It-And-Forget-It Privacy Settings on Social Media*
- HT'17 *A Measurement Study of Hate Speech in Social Media*
- SOUPS'16 *Forgetting in Social Media: Understanding and Controlling Longitudinal Exposure of Socially Shared Data*
- SOUPS'14 *Understanding and specifying social access control lists*
- USEC'14 *Beyond Access Control: Managing Online Privacy via Exposure*
- CoNEXT'12 *Defending against large-scale crawls in online social networks*
- SIGCOMM'11 *Limiting large scale crawls of social networking sites* (final round, student research competition)

#### POSTERS

- CSCW'22 *A Privacy Paradox? Impact of Privacy Concerns on Willingness to Disclose COVID-19 Health Status in the United States*
- SOUPS'22 *A Platform for Uncovering Indian Users' Decision-Making Process in United Payment Interface (UPI) Apps*
- SOUPS'22 *"Others Have the Right to Know": Determinants of Willingness to Share COVID-19-Related Health Symptoms*
- SOUPS'21 *Prioritizing Minimalistic Design: The Negative Impact on Users' Control over Privacy in Facebook's Ad Preferences*
- CSCW'20 *Cultural Norms and Interpersonal Relationships: Comparing Disclosure Behaviors on Twitter*
- NDSS'19 *Forgetting the Forgotten, Concealing Content Deletion from Persistent Observers*
- SOUPS'18 *Making Retrospective Data Management Usable*
- ICWSM'16 *Analyzing the Targets of Hate in Online Social Media*
- SIGCOMM'11 *Limiting large-scale crawls of social networking sites* (student research competition finalist)

#### PROFESSIONAL SERVICE

- Organizing committee CSCW, SPACE'20/21/22, COMSNETS'20/21/22, ICDCN '22
- PC member Usenix Security, CCS, SOUPS, ACM CHI, WWW, ICWSM
- Reviewer **Journal:** ACM ToN, IEEE IC, ACM TOIT, ACM TWEB, IEEE TPDS, IEEE TDSC, Elsevier JPDC  
**Conference:** ACM CSCW, ACM CHI, ACM AsiaCCS, ICWSM, WWW, WebSci

## TEACHING

- Autumn 2022 Usable Security and Privacy (Advanced course, IIT KGP)
- Spring 2021 – 22 Operating Systems Theory and Laboratory (Core course, IIT KGP)
- Autumn 2021 Usable Security and Privacy (Advanced course, IIT KGP)
- Autumn 2021 Social Computing (Advanced course, IIT KGP)
- Spring 2020 – 21 Operating Systems Theory and Laboratory (Core course, IIT KGP)
- Autumn 2020 Usable Security and Privacy (Advanced course, IIT KGP)
- Autumn 2020 Cryptography and Network Security (Advanced course, IIT KGP)
- Spring 2019 – 20 Operating Systems Theory and Laboratory (Core course, IIT KGP)
- Autumn 2019 Cryptography and Network Security (Advanced course, IIT KGP)
- Autumn 2019 Social Computing (Advanced course, IIT KGP)
- Winter 2017 – 18 Data-Driven Security and Privacy (Seminar, UChicago)
- Summer 2018 Usable Security and Privacy (Advanced course, UChicago)