

# Munmun De Choudhury

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- CONTACT** School of Interactive Computing, Georgia Tech  
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O: (404) 385 8603; [munmund@gatech.edu](mailto:munmund@gatech.edu); <http://www.munmund.net/>
- RESEARCH INTERESTS** Computational and data science problems around modeling and understanding online social behavior, health, mental, behavioral, and psychological well-being. General interests include: social media analytics, data and text mining, natural language analysis, social computing.
- APPOINTMENTS**
- School of Interactive Computing, Georgia Tech**  
**Assistant Professor (tenure-track)**, Jan 2014—present
- neXus Research Group, Microsoft Research, Redmond**  
**Postdoctoral Researcher**, Sep 2011—Aug 2013
- School of Communication & Information, Rutgers University, New Jersey**  
**Visiting Research Fellow**, Mar 2011—Sep 2011
- VIBE Research Group, Microsoft Research, Redmond**  
**Research Intern**, May 2010—Aug 2010
- Micro-Economics and Social Systems, Yahoo! Research**  
**Research Intern**, May 2009—Aug 2009
- Collaborative Applications Research Group, Avaya Labs**  
**Research Scientist Intern**, May 2006—Aug 2006
- Department of Computer Science, Arizona State University**  
**Graduate Research Assistant**, Aug 2005—Feb 2011
- EDUCATION**
- Doctor of Philosophy, Arizona State University (Aug 2005—Feb 2011)**  
**School of Computing, Informatics and Decision Systems Engineering**  
Tempe, AZ, USA
- *Dissertation*: Analyzing the Dynamics of Communication in Online Social Networks
  - *Committee*: Hari Sundaram (chair), K. Selcuk Candan, Huan Liu, Duncan Watts (Microsoft Research), Doree Seligmann (Avaya Labs)
- Bachelor of Technology, National Inst. of Technology (Sep 2001—May 2005)**  
**Department of Computer Science and Information Technology**  
Bhopal, India
- HONORS AND AWARDS**
- Best Paper Award, ICWSM 2017.
  - Best Paper Award, CSCW 2017.
  - Best Paper Award, ICWSM 2016.
  - Best Paper Honorable Mention, CHI 2016 (ACM SIGCHI).
  - Best Paper Honorable Mention (2), CSCW 2016 (ACM SIGCHI).
  - Georgia Tech “Faces of Inclusive Excellence”, 2016.

- Yahoo Faculty Engagement Award, 2015.
- Class of 1969 Teaching Fellow, Center for the Enhancement of Teaching and Learning (CETL), Georgia Tech 2015-16.
- James Edenfield Faculty Fellowship Award, 2015.
- Lee Dirks Award for Best Research Paper, iConference 2015.
- Harvard Berkman Center Faculty Associate, 2014.
- Best Paper Award, CHI 2014 (ACM SIGCHI).
- “15 Women in Data to Follow”, Center for Data Innovation, 2014.
- Best Paper Nomination, CSCW 2013 (ACM SIGCHI).
- Best Paper Honorable Mention, CHI 2012 (ACM SIGCHI).
- Facebook Fellowship Finalist, 2010-2011.
- Facebook Grace Hopper Travel Award for Women in Computing, 2010.
- 6th IBM Watson Workshop on 2010 Emergent Leaders in Multimedia.
- Grace Hopper Scholarship, 2007, 2008.
- Silver Medalist, Computer Science Department, NIT Bhopal, 2005.
- Jagadis Bose National Science Talent Search Scholarship, 2001.

GRANTS AND  
CONTRACTS

- Co-PI: Intelligence Advanced Research Projects Activity (IARPA), *A Comprehensive Approach to Modeling Job Performance via Unobtrusive, Continuous, Multimodal Sensing*. \$763,247 – Georgia Tech share (2017–2019).
- PI: National Institutes of Health (NIH) (#R01 GM112697-01), *Social Media Signals for Post-traumatic Stress and Anxiety in Crisis-Inflicted Communities*. \$1,449,931 (2014–2019).
- PI: United Nations Foundation, *Social Media Measures of Adolescent Mental Health in Developing Countries*. \$100,000 (2015–2016).
- PI: Edenfield Faculty Award (Georgia Tech), *Identifying Risks to Psychological Distress in University Student Populations from Online Interaction Data*. \$29,837: One graduate student support for one academic year (2015-16).
- PI: Samsung, unrestricted gift \$30,000.
- PI: Yahoo! Labs, unrestricted gift \$22,500.
- PI: Facebook, unrestricted gift \$30,000.

## PUBLICATIONS

**Refereed Conference Proceedings**<sup>1</sup> (\* Student Author)

1. Ernala, S. K.\*, Rizvi, A., Birnbaum, M., Kane, J., and **De Choudhury, M.** (2018). *Linguistic Markers Indicating Therapeutic Outcomes of Social Media Disclosures of Schizophrenia*. In Proceedings of the ACM – Human Computer Interaction, to appear. [27%]
2. Saha, K.\*, and **De Choudhury, M.** (2018). *Modeling Stress with Social Media Around Incidents of Gun Violence on College Campuses*. In Proceedings of the ACM – Human Computer Interaction, to appear. [27%]

<sup>1</sup>Premiere conferences in computer science (e.g., CHI, CSCW, ICWSM, WWW) are highly selective, undergo rigorous peer-review involving 3-4 expert referees, and intended for archival papers only. These conferences often exceed journals in their selectivity, visibility, and impact. Please see <http://portal.acm.org/citation.cfm?id=1743546.1743569> for details. Wherever available, the acceptance rate is provided following each citation.

3. **De Choudhury, M.** and Kiciman, E. (2017). *The Language of Social Support in Social Media and its Effect on Suicidal Ideation Risk*. In Proc. ICWSM 2017: 11th International AAAI Conference on Web and Social Media. [14%]
4. Saha, K.\*, Chan, L.\*, de Barbaro, K., Abowd, G., and **De Choudhury, M.** (2017). *Infering Mood Instability on Social Media by Leveraging Ecological Momentary Assessments*. In Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies.
5. Bagroy, S.\*, Kumaraguru, P., and **De Choudhury, M.** (2017). *A Social Media Based Index of Mental Well-Being in College Campuses*. In Proc. CHI 2017: 34th Annual ACM Conference on Human Factors in Computing Systems. [25%]
6. Manikonda, L.\*, and **De Choudhury, M.** (2017). *Modeling and Understanding Visual Attributes of Mental Health Disclosures in Social Media*. In Proc. CHI 2017: 34th Annual ACM Conference on Human Factors in Computing Systems. [25%]
7. Chancellor, S.\*, Kalantidis, Y., Pater, J.\*, **De Choudhury, M.**, and Shamma, D. A. (2017). *Multimodal Classification of Moderated Online Pro-Eating Disorder Content*. In Proc. CHI 2017: 34th Annual ACM Conference on Human Factors in Computing Systems. [25%]
8. **De Choudhury, M.**, Sharma, S.\*, Logar, T., Eekhout, W., and Nielsen, R. (2017). *Gender and Cross-Cultural Differences in Social Media Disclosures of Mental Illness*. In Proc. CSCW 2017: 20th ACM Conference on Computer-Supported Cooperative Work and Social Computing. [34%]
9. **De Choudhury, M.**, Kumar, M.\*, and Weber, I. (2017). *Computational Approaches Toward Integrating Quantified Self Sensing and Social Media*. In Proc. CSCW 2017: 20th ACM Conference on Computer-Supported Cooperative Work and Social Computing. [34%]
10. Fiesler, C.\*, Dye, M.\*, Feuston, J.\*, Hiruncharoenvate, C.\*, Hutto, C.\*, Roshan, P., Pavalanathan, U.\*, Bruckman, A., **De Choudhury, M.**, and Gilbert, E. (2017). *What (or Who) Is Public? Privacy Settings and Social Media Content Sharing*. In Proc. CSCW 2017: 20th ACM Conference on Computer-Supported Cooperative Work and Social Computing. [34%]
11. Tamersoy, A.\*, Chau, D H., and **De Choudhury, M.** (2017). *Analysis of Smoking and Drinking Relapse in an Online Community*. In Proc. DH'17: 7th ACM Conference on Digital Health.
12. Ahsan, U.\*, **De Choudhury, M.**, and Essa, I. (2017). *Towards Using Visual Attributes to Infer Image Sentiment Of Social Events*. In Proc. IJCNN'17: 2017 International Joint Conference on Neural Networks.
13. Sharma, E.\*, Saha, K.\*, Ernala, S. K.\*, Ghoshal, S.\*, and **De Choudhury, M.** (2017). *Analyzing Ideological Discourse on Social Media: A Case Study of the Abortion Debate*. In Proc. CSSSA'17: Annual Computational Social Science Conference of the Computational Social Science Society of the Americas.
14. **De Choudhury, M.**, Jhaver, S.\*, Sugar, B.\*, Weber, I. (2016). *Social Media Participation in an Activist Movement for Racial Equality*. In Proc. ICWSM 2016: 10th International AAAI Conference on Weblogs and Social Media. [17%]  
**Best Paper Award**
15. **De Choudhury, M.**, Kiciman, E., Dredze, M., Coppersmith, G., and Kumar, M.\* (2016). *Discovering Shifts to Suicidal Ideation from Mental Health Content in Social Media*. In Proc. CHI 2016: 33rd Annual ACM Conference on Human Factors in Computing Systems. [23%]  
**Best Paper Honorable Mention**

16. Chancellor, S.\*, Mitra, T.\*, and **De Choudhury, M.** (2016). *Recovery Amid Pro-Anorexia: Analysis of Recovery in Social Media*. In Proc. CHI 2016: 33rd Annual ACM Conference on Human Factors in Computing Systems. [23%]
17. Chancellor, S.\*, Lin, Z.\*, and **De Choudhury, M.** (2016). “This Post Will Just Get Removed”: *Characterizing Deviant Pro-Eating Disorder Social Media Content*. In Proc. CHI 2016: 33rd Annual ACM Conference on Human Factors in Computing Systems. [23%]
18. Andalibi, N.\*, Haimson, O.\*, **De Choudhury, M.**, and Forte, A. (2016). *Understanding Social Media Disclosures of Sexual Abuse Through the Lenses of Support Seeking and Anonymity*. In Proc. CHI 2016: 33rd Annual ACM Conference on Human Factors in Computing Systems. [23%]
19. Chancellor, S.\*, Pater, J.\*, Clear, T.\*, Gilbert, E., and **De Choudhury, M.** (2016). *#thyghgapp: Instagram Content Moderation and Lexical Variation in Pro-Eating Disorder Communities*. In Proc. CSCW 2016: 19th ACM Conference on Computer-Supported Cooperative Work and Social Computing. [25%]  
**Best Paper Honorable Mention**
20. Chancellor, S.\*, Lin, Z.\*, Goodman, E.\*, Zerwas, S., and **De Choudhury, M.** (2016). *Quantifying and Predicting Mental Illness Severity in Online Pro-Eating Disorder Communities*. In Proc. CSCW 2016: 19th ACM Conference on Computer-Supported Cooperative Work and Social Computing. [25%]  
**Best Paper Honorable Mention**
21. **De Choudhury, M.**, Sharma, S.\*, and Kiciman, E. (2016). *Characterizing Dietary Choices, Nutrition, and Language in Food Deserts via Social Media*. In Proc. CSCW 2016: 19th ACM Conference on Computer-Supported Cooperative Work and Social Computing. [25%]
22. Garimella, K.\*, Weber, I., and **De Choudhury, M.** (2016). *Quote RTs on Twitter: usage of the new feature for political discourse*. In Proc. WebSci 2016: 8th ACM Conference on Web Science.
23. Sachdeva, N.\*, Kumaraguru, P., and **De Choudhury, M.** (2016). *Social Media for Safety: Characterizing Online Interactions between Citizens and Police*. In BritishHCI 2016: 2015 British Human Computer Interaction Conference.
24. Kumar, M.\*, Dredze, M., Coppersmith, G., and **De Choudhury, M.** (2015). *Detecting Changes in Suicide Content Manifested in Social Media Following Celebrity Suicides*. In Proc. HT 2015: 26th ACM Conference on Hypertext and Social Media.
25. Tamersoy, A.\*, **De Choudhury, M.**, and Chau, P. (2015). *Characterizing Smoking and Drinking Abstinence from Social Media*. In Proc. HT 2015: 26th ACM Conference on Hypertext and Social Media.
26. **De Choudhury, M.**, and Massimi, M. (2015). “She Said Yes!” *Liminality and Engagement Announcements on Twitter*. In Proc. iConference 2015. [36%]  
**Best Paper Award**
27. Pavalanathan, U.\*, and **De Choudhury, M.** (2015). *Identity Management and Mental health Discourse on Social Media*. In Proc. WWW’15 Companion: 24th International World Wide Web Conference. [13.8%]
28. **De Choudhury, M.** (2015). *Anorexia on Tumblr: A Characterization Study*. In Proc. DH’15: 5th ACM Digital Health Conference, in conjunction with WWW’15.
29. **De Choudhury, M.**, Monroy-Hernandez, A., and Mark, G. (2014). “Narco” *Emotions: Affect and Desensitization in Social Media during the Mexican Drug War*. In Proc. CHI 2014: SIGCHI Conference on Human Factors in Computing Systems. [22.8%]  
**Best Paper Award**

30. **De Choudhury, M.**, Morris, M., and White, R (2014). *Seeking and Sharing Health Information Online: Comparing Search Engines and Social Media*. In Proc. CHI 2014: SIGCHI Conference on Human Factors in Computing Systems. [**22.8%**]
31. **De Choudhury, M.**, Counts, S., Horvitz, E., and Hoff, A. (2014). *Characterizing and Predicting Postpartum Depression from Facebook Data*. In Proc. CSCW 2014: 17th ACM Conference on Computer Supported Cooperative Work and Social Computing.
32. Zhang, H.\*, **De Choudhury, M.**, and Grudin, J. (2014). *Creepy but Inevitable? The Evolution of Social Networking*. In Proc. CSCW 2014: 17th ACM Conference on Computer Supported Cooperative Work and Social Computing.
33. **De Choudhury, M.**, and De, S. (2014). *Mental Health Discourse on Reddit: Self-disclosure, Social Support, and Anonymity*. In Proc. ICWSM 2014: 8th International AAAI Conference on Weblogs and Social Media. [**23%**, full papers]
34. Kiciman, E., Counts, S., Gamon, M., **De Choudhury, M.**, and Thiesson, B. (2014). *Discussion Graphs: Putting Social Media Analysis in Context*. In Proc. ICWSM 2014: 8th International AAAI Conference on Weblogs and Social Media. [**23%**, full papers]
35. **De Choudhury, M.** (2014). *You're #Happy, I'm #Happy: Diffusion of Mood Expressions on Twitter*. In Proc. HCI Korea: 2014 HCI Korea Conference.
36. **De Choudhury, M.**, Gamon, M., Counts, S., and Horvitz, E. (2013). *Predicting Depression via Social Media*. In Proc. ICWSM 2013: International AAAI Conference on Weblogs and Social Media. [**20%**, full papers]
37. **De Choudhury, M.**, Counts, S., and Horvitz, E. (2013). *Social Media as a Measurement Tool of Depression in Populations*. In Proc. WebSci 2013: 5th ACM International Conference on Web Science.
38. **De Choudhury, M.**, Gamon, M., Hoff A., and Roseway, A. (2013). *"Moon Phrases": A Social Media Facilitated Tool for Emotional Reflection and Wellness*. In Proc. Pervasive Health 2013: 7th International Conference on Pervasive Computing Technologies for Healthcare.
39. **De Choudhury, M.**, Counts, S., and Horvitz, E. (2013). *Predicting Postpartum Changes in Emotion and Behavior via Social Media*. In Proc. CHI 2013: SIGCHI Conference on Human Factors in Computing Systems.
40. **De Choudhury, M.**, Counts, S., and Horvitz, E. (2013). *Major Life Events and Behavioral Markers in Social Media: Case of Childbirth*. In Proc. CSCW 2013: 16th ACM Conference on Computer Supported Cooperative Work.  
**Best Paper Nomination**
41. **De Choudhury, M.**, and Counts, S. (2013). *Understanding Affect in the Workplace via Social Media*. In Proc. CSCW 2013: 16th ACM Conference on Computer Supported Cooperative Work.
42. Monroy-Hernandez, A., boyd, d., Kiciman, E., **De Choudhury, M.**, Counts, S. (2013). *The New War Correspondents: The Rise of Civic Media Curation in Urban Warfare*. In Proc. CSCW 2013: 16th ACM Conference on Computer Supported Cooperative Work.
43. **De Choudhury, M.**, Counts, S., and Gamon, M. (2012). *Not All Moods are Created Equal! Exploring Human Emotional States in Social Media*. In Proc. ICWSM 2012: International AAAI Conference on Weblogs and Social Media. [**9%**, oral presentation]
44. Diakopoulos, N., **De Choudhury, M.**, and Naaman, M. (2012). *Finding and Assessing Social Media Information Sources in the Context of Journalism*. In Proc. CHI 2012: SIGCHI Conference on Human Factors in Computing Systems.  
**Best Paper Honorable Mention [23%]**

45. **De Choudhury, M.**, Diakopoulos, N., and Naaman, M. (2012). *Unfolding the Event Landscape on Twitter: Classification and Exploration of User Categories*. In Proc. CSCW 2012: ACM Conference on Computer Supported Cooperative Work.
46. **De Choudhury, M.** (2011). *Tie Formation on Twitter: Homophily and Structure of Ego-centric Networks*. In Proc. SocialCom 2011: IEEE Int'l Conference on Social Computing. [9.8%]
47. **De Choudhury, M.**, Counts, S., and Czerwinski, M. *Find Me the Right Content! Diversity-based Sampling of Social Media Content for Topic-centric Search*. In Proc. ICWSM 2011: Int'l AAAI Conference on Weblogs and Social Media. [23%, full papers]
48. **De Choudhury, M.**, Counts, S., and Czerwinski, M. *Identifying Relevant Social Media Content: Leveraging Information Diversity and User Cognition*. In Proc. HT 2011: ACM Conference on Hypertext and Hypermedia. [21%, long papers]
49. **De Choudhury, M.**, Lin, Y-R., Sundaram, H., Candan, K. S., Xie, L., Kelliher, A. (2010). *How Does the Data Sampling Strategy Impact the Discovery of Information Diffusion in Social Media?* In Proc. ICWSM 2010: Int'l AAAI Conference on Weblogs and Social Media. [19%, full papers]
50. **De Choudhury, M.**, Mason, Winter A., Hofman, Jake M., Watts, Duncan J. (2010). *Inferring Relevant Social Networks from Interpersonal Communication*. In Proc. WWW 2010: international Conference on World Wide Web. [14%]
51. **De Choudhury, M.**, Feldman M., Amer-Yahia, S., Golbandi, N., Lempel, R., Yu, C. (2010). *Automatic Construction of Travel Itineraries using Social Breadcrumbs*. In Proc. HT 2010: ACM Conference on Hypertext and Hypermedia. [20%, long papers]
52. **De Choudhury, M.**, Sundaram, H., John, A., and Seligmann, D. D. (2009). *Social Synchrony: Predicting Mimicry of User Actions in Online Social Media*. In Proc. SocialCom 2009: International Conference on Social Computing. [9%]
53. Lin, Y., Sundaram, H., **De Choudhury, M.**, and Kelliher, A. (2009). *Temporal patterns in social media streams: theme discovery and evolution using joint analysis of content and context*. In Proc. ICME 2009: IEEE international Conference on Multimedia and Expo. [22%]
54. **De Choudhury, M.**, Sundaram, H., Lin, Y-R., John, A., and Seligmann, D. D. (2009). *Connecting Content to Community in Social Media via Image Content, User Tags and User Communication*. In Proc. ICME 2009: IEEE International Conference on Multimedia & Expo. [22%]
55. **De Choudhury, M.**, Sundaram, H., John, A., and Seligmann, D. D. (2009). *What Makes Conversations Interesting? Themes, Participants and Consequences of Conversations in Online Social Media*. In Proc. WWW 2009: International World Wide Web Conference. [11%]
56. **De Choudhury, M.**, Sundaram, H., John, A., and Seligmann, D. D. (2008). *Can Blog Communication Dynamics be correlated with Stock Market Activity?* In Proc. HT 2009: ACM Conference on Hypertext and Hypermedia. [25%]
57. **De Choudhury, M.**, Sundaram, H., John, A., and Seligmann, D. D. (2008). *Dynamic Prediction of Communication Flow Using Social Context*. In Proc. HT 2009: ACM Conference on Hypertext and Hypermedia. [25%]
58. **De Choudhury, M.**, Sundaram, H., John, A., and Seligmann, D. D. (2007). *Contextual Prediction of Communication Flow in Social Networks*. In Proc. WI 2007: IEEE/WIC/ACM international Conference on Web intelligence. [17%]

#### Refereed Journal Articles

1. Baumel, A., Baker, J., Birnbaum, M. L., Christensen, H., **De Choudhury, M.**, Mohr, D. C., Muench, F., Schlosser, D., Titov, N., and Kane, J. M. (in press). *Summary of Key Issues Raised in the Technology for Early Awareness of Addiction and Mental Illness (TEAAM-I) Meeting*. In Psychiatric Services.
2. Birnbaum, M., Ernala, S. K.\*, Rizvi, A., **De Choudhury, M.** and Kane, J. (2017). A Collaborative Approach to Identifying Social Media Markers of Schizophrenia by Employing Machine Learning and Clinical Appraisals. In Journal of Medical Internet Research.
3. Saha, K.\*, Weber, I., Birnbaum, M., and **De Choudhury, M.** (2017). Characterizing Awareness of Schizophrenia among Facebook Users By Leveraging Facebook Advertisement Estimates. In Journal of Medical Internet Research.
4. Haimson, O.\*, Andalibi, N.\*, **De Choudhury, M.**, and Hayes, G. (2017). Relationship Breakup Disclosures and Media Ideologies on Facebook. In the Journal of New Media & Society.
5. Walker, M.\*, Thornton, L., **De Choudhury, M.**, Teevan, J., Bulik, C., Levinson, C., and Zerwas, S. (2015). *Facebook Use and Disordered Eating in College-Aged Women*. In Journal of Adolescent Health.
6. Sundaram, H., Xie, L., **De Choudhury, M.**, Lin, Y-R., Natsev, A. (2013). *Multimedia Semantics: Interactions between Content and Community*. In the Proceedings of the IEEE (IEEEP), special issue on “Web-Scale Multimedia Processing and Applications”.
7. Lin, Y.-R., Sundaram, H., **De Choudhury, M.** and Kelliher, A. (2012). *Discovery of Multi-relational Structures in Social Media Streams*. In the ACM Trans. on Multimedia Computing, Communications and Applications (TOMCCAP).
8. Sundaram, H., Lin, Y-R., **De Choudhury, M.**, Kelliher, A. (2012). *Understanding Community Dynamics in Online Social Networks: A multidisciplinary review*. In the IEEE Signal Processing Magazine, Special Issue on Signal and Information Processing for Social Learning and Networking.
9. **De Choudhury, M.**, Sundaram, H., John, A., and Seligmann, D. D. (2010). *Extraction, Characterization and Utility of Prototypical Communication Groups in the Blogosphere*. In the ACM Trans. On Information Systems (TOIS).

#### Book Chapters/Magazine Articles

1. **De Choudhury, M.** (in press). *Revolutionizing Mental Health with Social Media*. In Edited Volume “Communication Science in the Digital Age: New Frontiers in the Theory and Research of Interpersonal Networks”, Oxford University Press.
2. **De Choudhury, M.** (2014). *Opportunities of Social Media in Health and Well-being*. In XRDS: Crossroads, The ACM Magazine for Students - Health Informatics, Volume 21 Issue 2, Winter 2014.
3. Monroy-Hernandez, A., Farnham, S., Kiciman, E., Counts, S., and **De Choudhury, M.** (2013). *Smart Societies: From Citizens as Sensors to Collective Action*. ACM Interactions Magazine, 20(4), 16-19.
4. **De Choudhury, M.** (2012). *Understanding our Online Communication Processes*. In SIGWEB Newsl. Winter, Article 3 (January 2012), 4 pages.
5. **De Choudhury, M.** (2011). *Discovering Relevant Entities in Large-scale Social Information Systems*. In Handbook of Data Intensive Computing, 2011, Springer.
6. **De Choudhury, M.**, Sundaram, H., John, A., and Seligmann, D. D. (2010). *Analyzing the Dynamics of Communication in Online Social Networks*. In Handbook of Social Networks Technologies and Applications, 2010, Springer.

#### Refereed Poster/Demo Proceedings

1. Delgado, J. M.\*, Eisenstein, J., and **De Choudhury, M.** (2015). *Psychological Effects of Urban Crime Gleaned from Social Media*. In Proc. ICWSM 2015: International AAAI Conference on Web and Social Media.
2. Sharma, S.\*, and **De Choudhury, M.** (2015). *Detecting and Characterizing Nutritional Information of Food and Ingestion Content in Instagram*. In Proc. WWW 2015 Companion: 24th International World Wide Web Conference.
3. Balani, S.\*, and **De Choudhury, M.** (2015). *Detecting and Characterizing Mental Health Related Self-Disclosure in Social Media*. In Proc. CHI EA 2015: Extended Abstracts of the SIGCHI Conference on Human Factors in Computing Systems.
4. **De Choudhury, M.**, Gamon, M., and Counts, S. (2012). *Happy, Nervous or Surprised? Classification of Human Affective States in Social Media*. In Proc. ICWSM 2012: International AAAI Conference on Weblogs and Social Media.
5. **De Choudhury, M.**, Feldman M., Amer-Yahia, S., Golbandi, N., Lempel, R., Yu, C. (2010). *Constructing Travel Itineraries from Geo-temporal Bread-crumbs*. In Proc. WWW 2010: International Conference on World Wide Web.
6. **De Choudhury, M.** (2010). *Discovery of Information Disseminators and Receptors on Online Social Media*. In Proc. HT 2010: ACM Conference on Hypertext and Hypermedia.
7. **De Choudhury, M.** (2009). *Modeling and Predicting Group Activity over Time in Online Social Media*. In Proc. HT 2009: ACM Conference on Hypertext and Hypermedia.
8. **De Choudhury, M.**, Sundaram, H., John, A., and Seligmann, D. D. (2008). *Multi-scale Characterization of Social Network Dynamics in the Blogosphere*. In Proc. CIKM 2008: ACM Conference on information and Knowledge Management. [16%]

#### Refereed Workshop Proceedings

1. Chancellor, S.\*, Silenzio, V., Caine, E., and **De Choudhury, M.** (2016). *Social Media Big Data as a “Sensor” of Mental Well-being: Ethical Insights and Challenges*. In CSCW 2016 Workshop on Human Centered Data Science.
2. **De Choudhury, M.** (2014). *Can Social Media Help Us Reason About Mental Health?* In Proc. WWW Companion 2014: Companion Publication of the 23rd International Conference on World Wide Web Companion.
3. Kiciman, E., **De Choudhury, M.**, Counts, S., Gamon, M., and Thiesson, B. (2013). *Analyzing Social Media Relationships in Context with Discussion Graphs*. In Proceedings of the Eleventh Workshop on Mining and Learning with Graphs, in conjunction with KDD 2013 (Aug 11, Chicago, Illinois). MLG 2013.
4. **De Choudhury, M.** (2013). *Role of Social Media in Tackling Challenges in Mental Health*. In Proceedings of the 2nd International Workshop on Socially-Aware Multimedia, in conjunction with ACM Multimedia 2013 (Oct 21, Barcelona, Catalunya, Spain). SAM 2013.
5. **De Choudhury, M.**, and Sundaram, H. (2011). *Why Do We Converse on Social Media? An Analysis of Intrinsic and Extrinsic Network Factors*. In Proc. SIGMM Workshop on Social Media (WSM 2011), in conjunction with ACM Multimedia 2011.
6. **De Choudhury, M.**, Sundaram, H., John, A., and Seligmann, D. D. (2007). *Context Aware Routing of Enterprise User Communications*. In Proc. IEEE international Conference on Pervasive Computing and Communications Workshops.

#### Refereed Presentations/Symposia

1. Chancellor, S.\*, Deeb, J.\* and **De Choudhury, M.** (2015). *Network Analysis of Pro-Eating Disorder Instagram Communities*. In 2015 Atlanta Computational Social Science Workshop.



2. Sharma, S.\*, Kiciman, E., and **De Choudhury, M.** (2015). *Characterizing Dietary Choices, Nutrition, and Language in Food Deserts via Social Media*. In 2015 Atlanta Computational Social Science Workshop.
3. Jhaver, S.\*, Sugar, B.\*, and **De Choudhury, M.** (2015). *Characterizing the Dynamics of a Protracted Activist Movement via Social Media*. In 2015 Atlanta Computational Social Science Workshop.
4. **De Choudhury, M.** (2015). *Harnessing Social Media for Mental Well-being of College Populations*. In NSF Workshop on Future Technology to Preserve College Student Health and Foster Wellbeing, Northwestern University, Chicago, July 30-31, 2015.
5. **De Choudhury, M.** (2015). *Twitter Data for Social Research: Empirical Evidence — Case of Depression*. In AAPOR 70th Annual Conference.
6. **De Choudhury, M.** (2015). *Measuring Wellbeing States from Online Social Media*. In AAAS Annual Meeting 2015.
7. **De Choudhury, M.**, and Counts, S. (2012). *The Nature of Emotional Expression in Social Media: Measurement, Inference, and Utility*. In 2012 Human Computer Interaction Consortium (HCIC) Workshop.
8. **De Choudhury, M.**, Counts, S., and Horvitz, E. (2012). *How Social Information Networks Reflect Major Life Events: Case of Childbirth*. In the Workshop on Information In Networks (WIN 2012).
9. **De Choudhury, M.** and Sundaram, H. (2010). *How “Birds of a Feather Flock Together” on Online Social Spaces*. 2010 Grace Hopper Celebration of Women in Computing.
10. **De Choudhury, M.**, John, A., Seligmann, D. D. and Sundaram, H. (2009). *Which are the Representative Groups in a Community? Extracting and Characterizing Key Groups in Blogs*. ACM Student Research Competition, HT 2009.
11. **De Choudhury, M.**, Sundaram, H., John, A., and Seligmann, D. D. (2008). *Modeling Information Roles for Understanding Stock Market Dynamics*. 8th Grace Hopper Celebration of Women in Computing.

### Theses

1. **De Choudhury, M.** (2011). *Analyzing the Dynamics of Communication in Online Social Networks*. PhD Thesis, School of Computing, Informatics and Decision Systems Engineering, Arizona State University, Tempe.
2. **De Choudhury, M.** (2005). *Pattern Recognition in Satellite Imagery using Artificial Neural Networks*. B.Tech Thesis, National Institute of Technology, Bhopal, India.

### PATENTS

1. **De Choudhury, M.**, Gamon, M., and Counts, S. (2013) *Affective State Classification of Social Media*. Patent granted.
2. Yom-Tov, E., White, R., **De Choudhury, M.**, Horvitz, E., and Counts, S. (2013) *Identification of Behavioral Shifts using Interaction Data*. Patent disclosure approved.
3. Counts, S., **De Choudhury, M.**, and Czerwinski, M. (2011) *Information Entropy-Based Sampling of Social Media*. Patent granted.
4. Amer-Yahia, S., Lempel, R., Yu, C., **De Choudhury, M.**, Feldman M., Golbandi, N. (2009) *Mining Travel Itineraries from Geo-temporal Social Data*. Patent granted.

## TEACHING

**Georgia Tech (Instructor)**

Social Computing (CS 6474) [Undergraduate/Graduate]: Fall 2014; Fall 2016; Fall 2017  
 Data Analytics for Well-Being (CS 8803 SAH) [Graduate]: Spring 2016  
 Collaborative Computing (CS 7460) [Graduate]: Spring 2015  
 Social Computing (CS 4803 SOC) [Undergraduate]: Fall 2015  
 Computing, Society, and Professionalism (CS 4001) [Undergraduate]: Spring 2017

**Arizona State University (Teaching Assistant)**

Software Capstone II (CSE 486) [Undergraduate]: Spring 2010

KEYNOTE AND  
INVITED TALKS

- *Opportunities and Challenges of Social Media in Health and Well-being*  
 Georgia Tech GVU Center 25 Year Celebration, October 2017.  
 Georgia Tech Health Systems Workshop, September 2017.  
 University of Oregon Center for Digital Mental Health Launch Workshop, August 2017.  
 Mining Online Health Reports Workshop, February 2017.  
 CCC-NSF Smart Health Workshop, December 2016.  
 Northeastern University Complex Systems Seminar, November 2016.  
 Office of US Marine Corps., September 2016.  
 Pacific Northwest National Laboratory, June 2016.  
 PyData Atlanta Meetup, June 2016.  
 #FAIL Workshop: Things that Didn't Work Out in Social Media Research, May 2016.  
 Georgia Tech NLP Symposium, April 2016.  
 Stanford University Graduate Seminar, February 2016.  
 Dartmouth College CS Department Seminar, January 2016.  
 GESIS Computational Social Science Winter Symposium, Cologne, December 2015.  
 Univ. of Lincoln Eating Disorders, Social Media & Digital Tech Workshop, December 2015.  
 University of Washington "Social Inequality and Health" Panel, November 2015.  
 IU-PUI Research Colloquium (Indianapolis, IN), October 2015.  
 NSF Modeling Health Workshop (London, UK), August 2015.  
 Instituto Nacional de Estadística y Geografía (INEGI, Mexico), August 2015.  
 Northwestern-Dartmouth-NSF College Student Health Workshop, August 2015.  
 Computational Linguistics & Clinical Psychology Workshop, June 2015.  
 Data Science for Social Good Seminar – Atlanta Chapter, June 2015.  
 IBM Research Almaden, Feb 2015.  
 Data Privacy Day Panel, Jan 2015.  
 Intl. Workshop on Socially Aware Multimedia, Nov 2014.  
 Atlanta Computational Social Science Workshop, Nov 2014.  
 GVU Annual Advisory Board Meeting, Oct 2014.  
 School of Interactive Computing Annual Advisory Board Meeting, Oct 2014.  
 Oak Ridge National Lab, Oct 2014.  
 CLSP Seminar, Johns Hopkins University, Sep 2014.  
 GVU Brown Bag, Georgia Tech, Sep 2014.  
 mHealth Training Institute, Aug 2014.  
 Computational Social Science Seminar, GTRI, Jul 2014.  
 Emory University Seminar, Apr 2014.  
 Connecting Online and Offline Life Workshop (COOL 2014), Seoul, South Korea, Apr 2014.  
 2014 KAIST Workshop on Social Media and Culture, Daejeon, South Korea, Apr 2014.  
 Univision Retreat, Atlanta, GA, Mar 2014.  
 COLLABORATE 2014: Georgia Tech-CDC Workshop, Atlanta, GA, Mar 2014.
- *Communities in Trauma: Disclosure, Disinhibition, and Desensitization on Social Media*  
 Microsoft Research, Redmond, WA, Feb 2014

- *Mining Online Social Behavior for Better Healthcare*  
 DUB Seminar, University of Washington, Seattle, WA, Apr 2013.  
 Microsoft Research, New York City, Apr 2013  
 School of Interactive Computing, Georgia Tech, GA, Apr 2013.  
 Department of Computer Science, Lehigh University, PA, Mar 2013.  
 Dept of Software Information Sys., University of North Carolina Charlotte, NC, Mar 2013.  
 Microsoft Research, Redmond, WA, Mar 2013.  
 School of Information Sciences, University of Pittsburgh, PA, Feb 2013.  
 Department of Computer Science, University of Rochester, NY, Jan 2013.  
 TEDxWomen, South Lake Union, Seattle, WA, Dec 2012.  
 GVU Brown Bag Seminar, Georgia Institute of Technology, Atlanta, GA, Dec 2012.  
 Computer Sc. Education Week, Microsoft Day of Caring talk, Kent, WA, Dec 2012.  
 Workshop on Information in Networks (WIN), New York, Sep 2012.  
 Human Computer Interaction Consortium (HCIC), Pacific Grove, CA, Jun 2012.
- *Understanding and Inferring Human Moods and Affective States*  
 Data Analytics Forum, Microsoft SQL Server Team, Redmond, WA, July 2012.  
 Microsoft Research TechFest 2012, Redmond, WA, Feb 2012 (included demo).
- *Characterizing Collective Human Behavior*  
 Social Research Offsite, Microsoft Bing, Bellevue, WA, Oct 2011 (included demo).  
 Transportation Research Board (TRB), Irvine, CA, May 2011.  
 IEEE Computer Society, ASU Chapter, Sep 2009.
- *Social Information Space Sampling & User Cognition*  
 School of Informatics and Computing, Indiana University, Feb 2011.  
 Microsoft Research, Redmond, WA, Jan 2011.  
 School of Communication & Information, Rutgers, Nov 2010.  
 Annual Watson Workshop on Emergent Leaders in Multimedia, IBM, Oct 2010.
- *Social Network Inference & Characterization from Communication*  
 Key Scientific Challenges Graduate Student Summit, Yahoo! Research, Sep 2009.  
 LGSA Interdisciplinary Graduate Research Symposium, ASU, Mar 2010.  
 Avaya Labs, Basking Ridge, NJ, Jun 2009.  
 CSE PhD Forum Seminar, Arizona State University, Apr 2009.  
 Avaya Labs, Basking Ridge, NJ, Aug 2006.

## SERVICE

**Chair:**

Steering Committee Member, Intl. Conference on Weblogs & Social Media: 2015-19 (ICWSM)  
 Workshop Co-chair, International Conference on Weblogs & Social Media: 2016 (ICWSM)  
 Program Co-chair, International Conference on Weblogs & Social Media: 2014 (ICWSM)  
 Sponsorship Chair, International Conference on Weblogs & Social Media: 2013 (ICWSM)  
 Area Co-chair, "Social Media & Presence", at ACM Multimedia: 2013 (MM)  
 Track Co-chair, "Social Media", at the ACM Hypertext and Social Media: 2012 (HT)

**Program Committee Member/Senior Program Committee Member (Conferences):**

ACM SIGCHI Conference on Human Factors in Computing Systems (CHI): 2015-18  
 ACM SIGCHI Conference on Computer Supported Cooperative Work and Social Computing (CSCW): 2018  
 ACM Conference on Web Search and Data Mining (WSDM): 2012, 2014-2016  
 International World Wide Web Conference (WWW): 2012, 2014-18

Annual Meeting of the Association for Computational Linguistics (ACL): 2014-17  
 Conference on Empirical Methods in Natural Language Processing (EMNLP): 2012, 2016-17  
 ACM Conference on User Modeling, Adaptation and Personalization (UMAP): 2016, 2017  
 International School and Conference on Network Science (NetSci): 2017  
 International Conference on Computational Social Science (IC2S2): 2015, 2017  
 ACM Multimedia (MM): 2015  
 International Conference on Social Informatics (SocInfo): 2014-17  
 iConference: 2015-2016  
 IEEE International Conference on Healthcare Informatics (ICHI): 2015  
 European Chapter of the Association for Computational Linguistics (EACL): 2014  
 ACM SIGCHI Student Research Competition (SRC): 2014  
 ACM Conf. on Bioinformatics, Computational Biology & Health Informatics (BCB): 2014, 2015  
 Annual Meeting of the Association for Information Science and Technology (ASIS&T): 2014  
 International Joint Conference on Artificial Intelligence (IJCAI): 2013, 2016  
 International AAAI Conference on Weblogs & Social Media (ICWSM): 2011-13, 2015-16  
 IEEE International Conference on Social Computing (SocialCom): 2010-12  
 ACM Conference on Hypertext (HT), "Social Linking" track: 2011-14  
 Intl Conf on Advances in Social Network Analysis and Mining (ASONAM): 2011-14  
 Indian National Conference on HCI: 2014  
 ACM Multimedia Systems Conference, "Datasets" track (MMSys): 2013

#### **Program Committee Member (Workshops):**

International Workshop on Natural Language Processing for Social Media (SocialNLP): 2015, 2016  
 Workshop on Social News On the Web (SNOW): 2013-14, 2016  
 Workshop on Natural Language Processing and Computational Social Science (NLP-CSS): 2016  
 5th workshop on Making Sense of Microposts, colocated with WWW 2015: 2015  
 HealthIQ Workshop, co-located with Intl. Conference on Healthcare Informatics: 2015  
 IEEE/CIC ICCS Symposium on Social Networks and Big Data (SNBD): 2014  
 Workshop on Computational Linguistics and Clinical Psychology (CLCP): 2014  
 Workshop on Language Technologies and Computational Social Science: 2014  
 Workshop on Social Multimedia and Storytelling (SoMuS): 2014  
 Workshop on Computational Approaches to Social Modeling (ChASM): 2014  
 Computational Social Science Workshop: Contagion, Collective Behavior, and Networks: 2014  
 Computational Social Science Winter Symposium: 2014  
 International Workshop on Socially-Aware Multimedia (IWSAM): 2012, 2014  
 ACM SIGIR Workshop on Health Search and Discovery (HSD): 2013  
 Data-driven User Behavioral Modeling and Mining from Social Media: 2014  
 Workshop on Language Analysis for Social Media (LASM): 2011-14  
 Intl. Workshop on Real-Time Analysis & Mining of Social Streams (RAMSS): 2012-13  
 Workshop on Privacy and Security in Online Social Media (PSOSM): 2012-13  
 International Workshop on Modeling Social Media (MSM): 2012-13  
 Workshop on Social Media, in conjunction with ACM Multimedia: 2011

#### **Reviewing Experience (Journals):**

Nature Human Behavior  
 Nature Scientific Reports  
 PLoS one  
 ACM Trans. on the Web (TWeb)  
 ACM Trans. on Computer-Human Interaction (TOCHI)  
 ACM Trans. on Social Computing (TSC)  
 ACM Trans. on Information Systems (TOIS)  
 ACM Trans. on Knowledge Discovery from Data (TKDD)

ACM Trans. on Multimedia Computing, Communications and Applications (TOMCCAP)  
 ACM Trans. on Intelligent Systems and Technology (TIST)  
 Journal of the Association for Information Science and Technology (JASIST)  
 Journal of Medical Internet Research (JMIR)  
 New Media and Society  
 ACM Computing Surveys  
 Computational Linguistics  
 Journal of Computational Science  
 IEEE Transactions on Multimedia  
 IEEE Transactions on Knowledge and Data Engineering  
 Decision Support Systems  
 Machine Learning Journal  
 World Wide Web Journal  
 Information Systems Research  
 Journal of Complexity  
 International Journal on Artificial Intelligence Tools  
 Forum for Health Economics & Policy  
 Springer EPJ Data Science  
 BMC Public Health  
 Translational Behavioral Medicine: Practice, Policy and Research  
 Elsevier Computer Methods and Programs in Biomedicine  
 International Journal of Medical Informatics  
 International Journal of Environmental Research and Public Health  
 Elsevier International Journal of Human-Computer Studies  
 Elsevier Information Systems

**Journal Editorship:**

ACM Trans. on Knowledge Discovery from Data (TKDD) Special Issue: Connected Health at Big Data Era (2014)

**Workshops/Symposia Organized:**

First Workshop on Social Computing for Workforce 2.0: 2013  
 BigCHat: KDD Workshop on Connected Health at Big Data Era: 2014, 2015  
 AAAI Spring Symposium “Observational studies through social media and other human-generated content”: 2016  
 ICWSM Workshop on “Observational studies through social media and other human-generated content”: 2017

**Session Chairing:**

ACM Conference on Human Factors in Computing Systems (CHI), 2016  
 Intl. World Wide Web Conference (WWW): 2014  
 AAAI Intl. Conference on Weblogs and Social Media (ICWSM): 2012-14  
 ACM Conference on Hypertext and Social Media (HT): 2012, 2015

**External Reviewing:** CSCW 2012-17; CHI 2011-14; UbiComp 2016; HICSS 2016; GROUP 2012, 2015; Workshop on Social Media 2011; JCDL 2010’ WWW 2010’ ACM workshop on Social Network Mining and Analysis 2009; Intl. Conference on Multimedia & Expo 2009; ACM Multimedia 2009.

MENTORING

**PhD Students Advised:**

Stevie Chancellor, PhD Human Centered Computing, Fall 2014—present

Koustuv Saha, PhD Computer Science, Fall 2016—present  
 Sindhu Kiranmai Ernala, PhD Computer Science, Fall 2016—present  
 Eva Sharma, PhD Computer Science, Fall 2016—present  
 Sarmistha Dutta, PhD Computer Science, Fall 2016—present

**PhD Dissertation Committee:**

Umashanthi Pavalanathan, PhD Computer Science, Fall 2013—present  
 Unaiza Ahsan, PhD Computer Science, Fall 2013—present  
 C. J. Hutto, PhD Human Centered Computing, Fall 2012—present  
 Chaya Hiruncharoenvate, PhD Computer Science, Fall 2012—Spring 2017  
 Acar Tamersoy, PhD Computer Science, Fall 2012—Spring 2016  
 Saeideh Bakhshi, PhD Computer Science, Fall 2009—Spring 2014

SELECTED PRESS

- *2017-10-03*: “Will Technology Transform Mental Health Care? A Future Tense Event Recap” by Tonya Riley ([link](#)).
- *2017-02-23*: “Here’s how successful dieters leverage social media to successfully lose weight” by Adam Bible ([link](#)).
- *2017-06-01*: “Who has better mental health: Public or private college students?” by Science News ([link](#)).
- *2016-08-03*: “Black Lives Matter: The social media behind a movement” by Anealla Safdar, Aljazeera ([link](#)).
- *2016-05-16*: “How Technology Could Solve the Food Desert Crisis” by Alex Swerdloff, Vice ([link](#)).
- *2016-04-14*: “Why Eating Disorders Are So Hard For Instagram And Tumblr To Combat” by Stephanie M. Lee, BuzzFeed ([link](#)).
- *2016-03-10*: “Instagram’s banning of pro-anorexia content may have made the problem worse, scientists find” by Doug Bolton, The Independent ([link](#)).
- *2016-03-01*: “The Instagrams of Food Deserts” by Julie Beck, The Atlantic ([link](#)).
- *2016-03-11*: “Pro-eating disorder communities modify hashtag terms to perpetuate the movement” by Marisa Kabas, Daily Dot ([link](#)).
- *2015-09-25*: “Celebrity Suicides Cast Negative Tone in Support Forums” by Rick Nauert PhD, Psych Central ([link](#)).
- *2015-09-24*: “How celebrity suicides change support-seeking practices on social media” , Phys.org ([link](#)).
- *2015-02-17*: “How Getting #Engaged Changes Your Tweets” by Elizabeth Preston, Discover Magazine ([link](#)).
- *2015-02-15*: “Facebook detects signs of postpartum depression” by Rachel Ehrenberg, Science Magazine ([link](#)).
- *2015-02-13*: “Love in the Time of Twitter” by Natasha Singer, New York Times ([link](#)).
- *2014-12-26*: “Risks in Using Social Media to Spot Signs of Mental Distress” by Natasha Singer, New York Times ([link](#)).
- *2014-11-07*: “Algorithms Understand” by Brooke Gladstone, NPR “On The Media” ([link](#)).
- *2014-04-22*: “As Drug War Rages, Tweets Reveal Mexicans? Emotional Numbness” by Larry Greenemeier, Scientific American ([link](#)).
- *2014-03-31*: “What’s New in Digital and Social Media Research: How editors see the news differently from readers, and the limits of filter bubbles” by John Wihbey, Nieman Lab ([link](#)).

- *2014-03-05*: “Mexican Drug War Shows Rising Violence Leads to Numbing of Social Media Posts” by Mary-Ann Russon, International Business Times ([link](#)).
- *2014-01-27*: “Can Social Media Help Direct Mental Health Aid?” by Nidhi Subbaraman, NBC News ([link](#)).
- *2014-03-15*: “How Twitter Knows When You’re Depressed” by Sam Frizell, TIME Magazine ([link](#)).
- *2013-12-04*: “How Microsoft Research is Using Social Data to Understand Depression” by Elaine Ellis Reddy, Gnip Data Story ([link](#)).
- *2012-11-05*: “24 hours before the election will the most social media savvy guy win?” by Eileen Brown, ZDNet ([link](#)).
- *2012-02-15*: “Twitter Tool Will Help Journalists Break News [VIDEO]” by Joann Pan, Mashable ([link](#)).
- *2012-02-14*: “Social media tool aims to help journalists find undiscovered, reliable sources on Twitter” by Steve Myers, Poynter ([link](#)).
- *2010-07-23*: “Using Flickr Photos as a Travel Guide” by Jennifer Valentino-DeVries, Wall Street Journal ([link](#)).
- *2010-06-24*: “The photos on Flickr create tourist routes” by Lorena Montesanto, Web PC ([link](#)).
- *2010-06-24*: “A new online travel guide evaluates what sights to the tourists are particularly popular” by Friedemann Sittig, Welt Online ([link](#)).
- *2010-06-15*: “Flickr Photos Yield Tourist Trails” by Tom Simonite, MIT Technology Review ([link](#)).
- *2010-05-14*: “Can Social Networks Be Generated Automatically?” by Erica Naone, MIT Technology Review ([link](#)).