

Nitesh Goyal

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Education

PhD, Faculty of Computer & Information Science, Cornell 2017

Thesis Title: Designing for Collaborative Data Analytics and Sensemaking

- Program: Information Science, Human Computer Interaction GPA: 3.75/4.00
- Doctoral Minor: Communication
- Committee: Prof. Susan R. Fussell (chair), Prof. Dan Cosley, Prof. Lee Humphreys

Master of Science, Department of Informatics, RWTH University, Aachen, Germany & Department of Computer Science, University of California, Berkeley 2010

Thesis Title: Designing Mobile Games for English Language Pronunciation Learning

- Major: Computer Science (Human Computer Interaction, CSCW) GPA: 4.00/4.00
- Advisor: Prof. John Canny (UC, Berkeley), Prof. Ulrik Schoreder (RWTH)

Bachelor of Technology, Information Technology, Indraprastha University, India 2005

- Major: Information Technology GPA: 4.00/4.00
- Minor: Software System Engineering

Skills

Languages

English, German, Hindi

HTML, CSS, ASP/JSP, SQL, JavaScript, Python, XML, Java

Applications

SPSS, Adobe CS5, OmniGraffle, Axure, Balsamiq

Methods

Qualitative Methods (Participatory Design, Interviewing, Observation), Retrospective Analysis, Lab/Crowd Experiments, Statistical Analysis, Hypothesis Testing, Mixed Methods Research Design, Usability, Heuristic Evaluations, Prototyping, User Interface Design, Info Visualization

Mentorship

Mentored Masters' Thesis: Sarah Alabdullatif (KACST), Poomima Prabhu (Amazon), Wei Yuan (Amazon), Si Chang (Salesforce), Cristina Guzman (Palantir), Kailin Koch (BSG), Karthic Ashokan (Oracle), Wit Tatiyanupanwong (Yahoo), Yiming Li (Epic), Yifan Tong (IBM)

Mentored Undergrad Research: Samantha Reig (Cornell), Ruoyan Qin (Cornell), Steven Lam (Cornell), Eric Swidler (Athena), Luke Goodman (GE)

Recent Awards/Travel Grants

TransRegio Integration Research Grant (15,000 Euros), Germany 2017

Invited to Dagstuhl for Lecture Series, Germany 2017

Peer Bonus @ Google, London 2016

ACM CSCW Top 5% Paper Honorable Mention Award 2016

Young Researcher, Heidelberg Laureate Forum, Germany 2016

Cornell Robert Mozia Graduate Student Of The Year Award, Cornell 2016

INTERACT Grant for Students/Early Stage Researchers from Developing Countries 2015

Dept. of Information Science Commendations for Teaching Award, Cornell 2015

Colman Graduate Leadership Program Fellow, Cornell 2015

Cornell DPE Graduate Student of the Year Award, Cornell 2015

Google Travel Grant, oSTEM National Conference 2014

United States Ignite Travel Grant 2013

Refereed Publications

- C.1 **Goyal, N**, Fussell, S. **Effects of Intelligent Interruption Management using EDA on Collaborative Sensemaking**. Proceedings of ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies IMWUT Journal / UBICOMP 2017
- C.2 **Goyal, N**, Fussell, S. **Effects of Sensemaking Translucence on Distributed Collaborative Analysis**. In Proceedings of ACM SIGCHI CSCW 2016, San Francisco, USA (**Best Paper Honorable Mention Top 5%**, Acceptance Rate: 25%) 2016
- C.3 Wozniak, P & **Goyal, N (Joint First Author)**, Kucharski, P, Lischke, L, Mayer, S, Fjeld, M. **RAMPARTS: Supporting Sensemaking with Spatially Aware Mobile Interactions**. In Proceedings of ACM SIGCHI CHI 2016, San Jose, USA (Acceptance Rate: 23%) 2016
- C.4 **Goyal, N**, Leshed, G, Cosley, D, Fussell, S. **Effects of Implicit Sharing in Collaborative Analysis**. In Proceedings of ACM SIGCHI CHI 2014, Toronto, Canada (Acceptance Rate: 22%) 2014
- C.5 **Goyal, N**, Leshed, G, Fussell, S. **Effects of Visualization and Note-taking on Sensemaking and Analysis**. In Proceedings of ACM SIGCHI CHI 2013, Paris, France (Acceptance Rate: 20%) 2013
- C.6 **Goyal, N**, Miner, W, Nawathe, N. **Cultural Differences across Governmental Website Design**. In Proceedings of ACM SIGCHI ICIC 2012, Bangalore, India 2012
- C.7 Tewari, A, **Goyal, N**, Chan, M, Yau, T, Canny, J, Schroeder, U. **SPRING: Speech and Pronunciation Improvement through Games, for Hispanic children**. In Proceedings of ACM ICTD 2010, London, UK (**Nominated for ITID Journal Article Top 5%**, Acceptance Rate: 14%) 2010
- C.8 **Goyal, N**. (2006). **Grading a Microcontroller: a Travelling Salesman Problem Application for Sustainable Consumption**. In Proceedings of IEEE ICECE 2006, Dhaka 2006

Under Review

- Goyal, N**, Bron, M, Lalmas, M, Haines, A, Cramer, H. **Designing for Experience Beyond the Native Ad Click**. Journal of the Association for Information Science and Technology (JASIST)
- Goyal, N**, Wahid, S, Gupta, S, Gray, C. **Communicating "In The Trenches": Challenges and Strategies for UX Practice**.
- Goyal, N**. Filed Patent. Google, USA

Lightly Refereed Publications

- EA.1 **Goyal, N**. **Designing for Collaborative Sensemaking: Leveraging Human Cognition For Complex Tasks**. Doctoral Consortium, IFIP TC.13 INTERACT 2015 2015
- EA.2 **Goyal, N**. **Designing for Collaborative Sensemaking: Using Expert & Non-Expert Crowd**. Doctoral Consortium, AAAI HCOMP-2015 2015
- EA.3 **Goyal, N**, Leshed, G, Fussell, S. **Leveraging Partner's insights for Distributed Collaborative Sensemaking**. Demo, ACM CSCW Extended Abstracts 2013 2013
- EA.4 Multiple Authors. **Massively distributed authorship of academic papers**. Alt.Chi, ACM CHI Extended Abstracts 2012 2012
- EA.5 **Goyal, N**. **COMET: Collaboration in Mobile Environments by Twisting**. Poster, EUSSET ECSCW Extended Abstracts 2009 2009
- EA.6 **Goyal, N**. **COMET: Collaboration in Applications for Mobile Environments**. Workshop, IFIP TC.13 INTERACT 2009 2009

Teaching Experience	Head Teaching Assistant , Business Intelligence, Cornell	Fall 2016
	Head Teaching Assistant , Intermediate Web Design, Cornell	Spring 2016
	Head Teaching Assistant , Introduction to HCI, Cornell	Fall 2015
	Head Teaching Assistant , Intermediate Web Design, Cornell	Spring 2015
	Head Teaching Assistant , Introduction to Web Design & PHP Programming, Cornell	Fall 2014
	Head Teaching Assistant , Intermediate Web Design, Cornell	Spring 2014
	Head Teaching Assistant , Online Communities, Cornell	Fall 2013
	Teaching Assistant , Advanced HCI Design, Cornell	Spring 2013
	Head Teaching Assistant , Introduction to Web Design & PHP Programming, Cornell	Fall 2012
Mentor , Adult Literacy Classes, Guru Gobind Singh Indraprastha University	2003 – 2005	

Industry Experience

User Experience Researcher , Google	2017 -
More details to appear	
User Research PhD Intern , Google	Summer 2016
<p>Primary Project: Understanding the ecosystem of how young adults are generating and monetizing content across online social platforms, to inform the strategy and opportunities for AdSense UX and PMs. Led and analyzed multi-method qualitative research including 30+ interviews, contextual enquiry, and focus group across 5 markets: US, UK, Germany, Brazil, and Japan.</p> <p>Secondary Project: Conducted Intercept Interviews for designing Social and Interpersonal Geo Experiences for Maps during Public events, like Pride or Concerts.</p>	
User Research PhD Intern , Bloomberg	Summer 2015
<p>Goal: Understanding challenges faced by UX Professionals when collaborating with non-UX stakeholders, and investigating associated strategies using interviews and surveys in Bloomberg and non-Bloomberg contexts like consulting setups etc. to inform internal UX strategy.</p> <p>Analyzed and designed <USER GO> to connect data across internal agencies for UX Researchers.</p>	
User Experience Research PhD Intern , Yahoo Labs	Summer 2014
<p>Goal: Understanding features associated with successful mobile advertisement design by validating User Engagement Metrics with traditional metrics using participatory design, and M-Turk studies. This was triangulated with quantitative metrics: Dwell Time and Bounce Rate, for external validity</p> <p>Analyzed and created checklist of features to be supported for native ad designs to improve UX.</p>	
User Experience Research PhD Intern , HP Labs	Summer 2012
<p>Goal: Designing a tool to provide a seamless way to snap into and out of ad-hoc meetings, provide a more engaging and interactive experience for the participants, while sharing content and opinions and easily brainstorming together, using participatory design with PMs as stakeholders.</p> <p>Led research, and sketched paper prototype of a tool for meetings.</p>	
User Experience Researcher , TCS/ABN AMRO	2005 – 2007
<p>Goal: Participating and leading Participatory Design workshops with client (ABN AMRO bank) and stakeholders, including PMs, Dev-Team, and Management to improve business activity monitoring, and workflow design for account closure using middleware TIBCO Suite. Designed and iteratively evaluated workflow for Personal Banking Account closure for ABN AMRO.</p>	

Academic Experience

Graduate Researcher , Information Science, Cornell University	2010 - 2016
<p>Goal: Understanding and designing for cognitive challenges faced during sensemaking when solving problems in distributed teams and, online crowd/M-Turk collaboration AI hybrid systems using mixed-method research: interviews, contextual inquiry, hypothesis testing, lab experiments.</p> <p>Designed, built and evaluated analytic systems (SAVANT, REFLECTIVA, TEMPORA, & C4S).</p>	
User Researcher & Game Designer , Univ. of California, Berkeley	Fall 2009 – Spring 2010
<p>Goal: Designing age appropriate and curriculum supported learning games for Hispanic immigrant K10-12 students to improve English pronunciation fluency using interviews, and field trials with</p>	

students and teachers in the local school system. Designed, built and evaluated pronunciation learning games (Zorro, and VozGuitar)

Courses Studied

Research Issues in Social Networks, Introduction to Natural Language Processing, Advanced Language Technologies, Rapid Prototyping/ Physical Computing, Advanced Human Computer Interaction, Computer Mediated Communication

Statistical Methods for Social Science 1, Statistical Methods for Social Science 2, Studies in Communication, Information Ethnographies, Qualitative Research Methods, Methods of Communication Research

Invited Talks

Diversity & Inclusion in STEM, ACM SIGCHI Conference on Human Factors in Computing Systems CHI 2016, San Jose, USA 2016

Designing for Online Collaborative Sensemaking: Knowledge Generation from complex data, Copenhagen Business School, Copenhagen, Denmark 2015

Collaborative Research: Leveraging Others' Insights to Improve Collaborative Analysis, NSF SoCS Workshop, Syracuse University, Syracuse 2014

Service

Conference Organizing:

ACM CHI 2018 Papers Program Committee
ACM CSCW 2018 Papers Program Committee
ACM CHI 2017 Program Committee for Late Breaking Work
ACM CHI 2017 Webmaster
ACM ICIC 2012 Student Volunteer Co-Chair

Conference Student Volunteering:

ACM CHI 2013 – 2015
CSCW 2010/2013/2015
ICIC 2010
Interact 2009
ECSCW 2009
IEEE P2P 2008

Conference Reviewing:

ACM CHI 2010 – 2018
CSCW 2017
DIS 2011/2014
ICIS 2012

Community Service

Co-President, Out in Science, Technology, Engineering, and Mathematics @ Cornell Fall 2015 - 2016

Founder and Founding President, Out in Science, Technology, Engineering, and Mathematics Chapter, oSTEM@Cornell Fall 2014 - 2015

Graduate Student Representative, Faculty Hiring Committee, Cornell Information Science PhD Student Organization Fall 2012 – 2013

Vice President, Cornell Information Science PhD Student Organization 2011 - 2012

Founder, International Students & Programs, Fachschaft – Mathematik, Physik and Informatik at RWTH University, Aachen 2008 -2010