

GAURAV PARUTHI

Ph.D. Candidate, University of Michigan, School of Information
105 S. State, Ann Arbor, MI-48104, +1-734-272-3929
www.gauravparuthi.com — gparuthi@umich.edu

RESEARCH INTERESTS

HCI, Design, UbiComp, IOT, AI/ML, Data Science and ICTD

EDUCATION

Ph.D. Information Science

Fall 2011- Present

University of Michigan, Ann Arbor, MI

Graduate Certificate in Computational Discovery and Engineering

Winter 2015

B.E.(Honors) Electrical and Electronic Engineering

Fall 2005-2009

Birla Institute of Technology and Science, Pilani, India

PROFESSIONAL EXPERIENCE

Graduate Student Research Assistant, *University of Michigan*

Fall 2011 - Winter 2017

My work centers around building context-aware applications for health.

Chief Technology Officer, *Sophus Inc.*

2016

Graduate Student Instructor, *University of Michigan*

Pervasive Interaction Design

Winter 2014, Fall 2015

Networked Computing: Storage, Communication, and Processing

Fall 2013

Complex Web Design

Winter 2016

Research Internships

- IDEO CoLab Fellowship

Summer 2017 - Present

- PARC, Palo Alto, California

Summer 2015

- Telefonica Research, Madrid, Spain

Summer 2013

- Microsoft Research, Bangalore, India

June 2009 - May 2010

- Elab, INSEAD, Singapore

Fall 2008

- Yahoo! Research, Bangalore, India

Summer 2008

Research Developer, *Microsoft Research*

2010 - 2011

SELECTED PUBLICATIONS

Gaurav P., Shriti R., Ankita G., Chuan-Che H., Yung-Ju C., Mark N., **HEED: Situated and Distributed Interactive Devices for Self-Reporting** *UbiComp'17*

Yung-Ju C., Gaurav P., Hsin-Ying W., Hsin-Yu L., Mark N., **An Investigation of Using Mobile and Situated Crowdsourcing to Collect Annotated Travel Activity Data in Real-World Settings.**

International Journal of Human-Computer Studies 2016

Smith S., Paruthi G., Hall K., Newman M., Murphy S., Klasnja P. **Dynamical Communication for Adaptive Mhealth Interventions: Evidence from the HeartSteps Pilot** *Poster in IEEE Wireless Health 2016*

Paruthi G., Frias-Martinez E., Frias-Martinez V. **Peer-to-Peer Microlending Platforms: Characterization of Online Traits** *Presented at 2016 IEEE International Conference on Big Data in Washington D.C.*

Paruthi G., Frias-Martinez E., Frias-Martinez V. **The Role of Rating and Loan Characteristics in Online Microfunding Behaviors** *arXiv preprint arXiv:1609.09571*

Chang Y., Paruthi G., Newman M. **Challenges in using wearable cameras and phone logs to generate ground truth of transportation activities** *in UbiComp'15*

Hall. K., Paruthi G., Smith S., Klasnja P., Newman M., Murphy S. **Dynamical Health Communication for the Twenty-First Century.** *Poster in SBM'15*

Paruthi G., Frias-Martinez E., Frias-Martinez V. **Understanding Lending Behaviors on Online Microlending Platforms: The Case for Kiva** in *International AAAI Conference on Weblogs and Social Media, 2015- ICWSM '15*

Dong T., Ackerman M., Newman M., Paruthi G., **Social Overlays: Collectively Making Websites More Usable**, in *Proceeding - INTERACT '13*

Ittan S., Paruthi G., Thies W., **Mapping Large Educational Websites to Interactive DVDs**, in *International Conference on Technology for Education 2012 - T4E '12*

Paruthi G., Thies W., **Utilizing DVD players as low cost offline Internet Browsers** in *Proceedings of ACM Conference on Human Factors in Computing Systems - CHI '11 Best of CHI Honorable Mention*

Gaikwad K., Paruthi G., Thies W., **Interactive DVD as a Platform for Education** in *Proceedings of the Int. Conf. on Information and Communication Technologies and Development, London - ICTD '10*

Sumbaly R., Kumar A., Paruthi G., Malhotra S., **Artificially Intelligent Grid Assistant** in *Proceedings of the International Conference on High Performance Computing - HiPC '07*

SKILLS

Programming: Python, C/C++, Javascript, Swift, Matlab, SQL

Frameworks: Git, RiotJS, React, Django, Flask, Redis, MongoDB

Machine Learning Techniques: Tensorflow, Classification - decision trees, SVM, HMM, etc.; Time-Series Forecasting - ARIMA, Holt Winters; Clustering - K-means, EM

Data Science: Python, Pandas, R, Hadoop, D3.js

Usability and Design: Experimental design, user interviews, user enactments, surveys, paper prototypes, journey maps, A/B test

Hardware Prototyping: Arduino, Raspberry PI, Photon, nrf51822

LEADERSHIP ACTIVITIES

Student Coordinator , ICTD Research Group - GRID, University of Michigan	<i>Fall 2011 - Fall 2013</i>
Founding & Nucleus Member , Center for Software Development, BITS Pilani	<i>2006-2009</i>
Founding Member Linux Users Group, BITS Pilani, Goa	<i>2008</i>
Member of Student Organizing Committee International Workshop of Biosensors	<i>2006</i>

AWARDS AND HONORS

Top 1% IDEO CoLAB 2017 Summer Fellowship	<i>2017</i>
First , Exposition, School of Information, University of Michigan	<i>2013, 2016</i>
First , Kaggle Competition for the Course SI-721 Data Mining,	<i>2012</i>
First , ICTD'12 Full Scholarship,	<i>2012</i>
National Finalist , for Google Product Prodigy,	<i>2009</i>
First Prize , CSC Innovation Icon,	<i>2008</i>
National First Runner-Up , in Microsofts Imagine Cup, in Software Design, Out of 4000 Teams.	<i>2007</i>
First , International Online Hacking Contest (IOHC),	<i>2008</i>
First , Binary Pirates, Indias first Capture the flag hacking contest, Quark	<i>2008</i>

OTHER ACTIVITIES

Webmaster, Human Computer Interaction Consortium (HCIC) 2013 - 2016, Interaction Ecologies Group, University of Michigan Jan 2014 - present

Reviewer, ACM IMWUT, 2017, ACM CHI 2015, 2016, 2017, ACM CSCW 2013, ACM ICTD 2013

Student Volunteer, ACM CSCW 2014, ACM CHI 2014