

Aakash Gautam

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EDUCATION

Virginia Tech

Ph.D. in Computer Science

Blacksburg, VA

August 2015 – August 2021

Motilal Nehru National Institute of Technology

B.Tech in Computer Science and Engineering

Allahabad, India

June 2009 – May 2013

PROFESSIONAL POSITIONS AND RANKS HELD

Assistant Professor

Computer Science, San Francisco State University

August 2021 – Present

San Francisco, California

Software Development Engineer

PayPal

June 2013 – June 2015

Bangalore, India

PUBLICATIONS

* denotes shared first authorship.

Conference Papers

- **Gautam, A.***, Wong-Villacres, M.*, Tatar, D., & Disalvo, B. (2021). Reflections on Assets-Based Design: A Journey Towards A Collective of Assets-Based Thinkers. In *Proceedings of the ACM on Human-Computer Interaction, 5 (CSCW2)*
- Venkatagiri, S., **Gautam, A.**, Luther, K. (2021). Crowdsolve: Managing tensions in an expert-led crowdsourced investigation. In *Proceedings of the ACM on Human-Computer Interaction, 5 (CSCW1)*
- **Gautam, A.**, Harrison, S., & Tatar, D. (2020). Crafting, Commuality, and Computing: Building on Existing Strengths To Support a Vulnerable Population. In *Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems (CHI'20)*
- **Gautam, A.**, Wall Bortz, W., & Tatar, D. (2020). Abstraction Through Multiple Representations in an Integrated Computational Thinking Environment. In *Proceedings of the 51st ACM Technical Symposium on Computer Science Education (SIGCSE'20)*
- Wall Bortz, W., **Gautam, A.**, Lipscomb, K., & Tatar, D. (2019). Integrating Computational Thinking into Middle School Science: A Search for Synergistic Pedagogy. In *2019 ASEE Southeastern Section Conference*.
🏆 *Best Paper Award*
- **Gautam, A.**, Shrestha, C., Tatar, D., & Harrison, S. (2018). Social Photo-elicitation: The Use of Communal Production of Meaning in a Sensitive Setting. In *Proceedings of 21st ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW'18)*
🏆 *Received Recognition for Contribution to Diversity and Inclusion*
- **Gautam, A.**, Wall Bortz, W., Tatar, D., Lipscomb, K., Rivale, S., Orsino, C. & Etzkorn, F. (2017). Finding Abstraction-Comprehension Balance: A Study of Model-Based Integrated Science and Computational Thinking Application. *American Educational Research Association (AERA '17)*

Journal Articles

- Wall Bortz, W., **Gautam, A.**, Tatar, D., & Lipscomb, K. (2020). Missing in Measurement: Why Identifying Learning in Integrated Domains is so Hard. *Journal of Science Education and Technology (JOST)*, 29(1), 121-136.

- **Gautam, A.**, Williams, D., Terry, K., Robinson, K., & Newbill, P. (2018). Mirror Worlds: Examining the Affordances of a Next Generation Immersive Learning Environment. *TechTrends*, 1-7.

Book Chapters

- Wall Bortz, W., **Gautam, A.**, Tatar, D., & Lipscomb, K. (2019). The Availability of Pedagogical Responses and the Integration of Computational Thinking. *Integrating Digital Technology in Education: School-University-Community Collaboration*, 81.

Refereed Short Papers

- **Gautam, A.**, Harrison, S., & Tatar, D. (2020). p for political: Participation Without Agency Is Not Enough. In *Proceedings of the 16th Participatory Design Conference (PDC'20)*
- **Gautam, A.**, Shrestha, C., & Tatar, D. (2019). Beyond Saving: A Case for Agency-First Approach Against Domestic Violence. In *Proceedings of the Tenth International Conference on Information and Communication Technologies and Development (ICTD'19)*
- **Gautam, A.**, Harrison, S., & Tatar, D. (2019). Adding Voices to Support Web Navigation Among a Low Digital Literacy Group. In *Companion Publication of the 2019 on Design of Interactive Systems (DIS'19)*.
- **Gautam, A.**, Shrestha, C., Kulak, A., Harrison, S., & Tatar, D. (2018). Participatory Tensions in Working with a Vulnerable Population. In *Proceedings of the 15th Conference on Participatory Design (PDC'18)*
- **Gautam, A.**, Wall Bortz, W., & Tatar, D. (2017). Case for Integrating Computational Thinking and Science in a Low-Resource Setting. In *Proceedings of the Ninth International Conference on Information and Communication Technologies and Development (ICTD'17)*
- **Gautam, A.**, Vishwasrao, S., & Servant, F. (2017). An empirical study of activity, popularity, size, testing, and stability in continuous integration. In *Proceedings of the 14th International Conference on Mining Software Repositories (MSR'17)*

Workshops (Organized)

- Karusala, N., Ismail, A., Bhat, K. S., **Gautam, A.**, Pendse, S. R., Kumar, N., ... Wang, D. (2021). The Future of Care Work: Towards a Radical Politics of Care in CSCW Research and Practice. In *Companion Publication of the 2021 Conference on Computer Supported Cooperative Work and Social Computing (CSCW'21)*
- **Gautam, A.***, Wong-Villacres, M.*, Roldan, W., Pei, L., Dickinson, J., Ismail, A., ... Yip, J. (2020). From Needs to Strengths: Operationalizing an Assets-Based Design of Technology. In *Companion Publication of the 2020 Conference on Computer-Supported Cooperative Work and Social Computing (CSCW'20)*

Demos, Notes, and Posters

- **Gautam, A.**, & Tatar, D. (2020). Society is the System: Beyond Individual Empowerment to Structural Negotiations. In *Computing Professionals for Social Responsibility: The Past, Present and Future Values of Participatory Design*
- **Gautam, A.** (2020). Usable, Acceptable, Appropriable: Towards Practicable Privacy. In *CHI 2020 Networked Privacy Workshop*
- **Gautam, A.**, Stewart, M., Shrestha, C., Tibau, J., Harrison, S., & Tatar, D. (2019). Designing to Reflect Our Better Nature. In *Design of Interactive Systems (DIS'19)*
- **Gautam, A.** (2018). Hearing and Crafting: Co-Designing with a Vulnerable Population in Nepal. In *International Research Conference (IRC'18)*

- Stewart, M., Joshi, S., **Gautam, A.**, & Tatar, D. (2017). Thought-swapping for in-class discussions. In *Proceedings of the 9th Annual Conference on Higher Education Pedagogy (CHEP'17)*
- **Gautam, A.** (2016). Wearing a Granular Production-Focused Lens. In *PSI Workshop: What should come next for HCI?*

INVITED TALKS & PRESENTATIONS

- Rethinking Reintegration. USAID Asia Counter Trafficking In Persons Evidence Summit. 11/2020
- Communication and Communities. HCI4D @ Third Space at University of Toronto 07/2020
- Social Justice. Sustainability, Social Justice and Critical Computing Virtual Forum. 05/2020
- Gender and Design. fempower.tech's CHIiversity 2020. 04/2020
- Information and Power in Labor Migration. Centre for Social Change, Nepal. 01/2019

GRANTS

- Google exploreCSR 2021
 - Amount: \$38,500.00
 - Principal Investigator: Pooyan Fazli
 - Co-Investigators: **Aakash Gautam**, Daniel Huang, Hui Yang
- NSF Award # 2030581: Scholarships To Improve Undergraduate Students' Academic Achievement, Retention, and Career Success in Computer Science and Artificial Intelligence 2020
 - Amount: \$999,987.00
 - Principal Investigator: Anagha Kulkarni
 - Co-Investigators: **Aakash Gautam**, Ilmi Yoon, Shasta Ihorn

AWARDS

- Special Recognition for Outstanding Reviews, CHI 2021
- Virginia Tech Graduate School Diversity Scholar 2020
- CS Graduate Teaching Assistant of the Year 2020
- Invited Member of Doctoral Consortium at PDC 2020
- Special Recognition for Outstanding Reviews, CSCW 2019, 2020
- Best Paper Award at ASEE Southeastern Section Conference 2019
- Invited Member of Doctoral Consortium at ICTD 2019
- SIGCHI and ICTD Student Travel Grant 2017, 2019
- Recognition for Contribution to Diversity and Inclusion, CSCW 2018
- Conference Travel Grants from VT CS Department and CHCI 2017, 2018, 2019
- St. Gallen Symposium Leaders of Tomorrow Award 2016

ACADEMIC SERVICE

- **Associate Chair (AC):** CHI: 2022; CHI Late Breaking Work: 2020 – 2021
- **Paper Reviewer:** ICLS: 2022; CSCW: 2017 – 2021; CHI: 2019 – 2021; DIS: 2019; ICTD: 2019 – 2020; AERA: 2017 – 2018; ASEE: 2019
- **Student Volunteer (SV):** CSCW: 2016, 2018, 2020; DIS: 2019 (SV Co-Chair); PDC: 2020