

# HERMAN SAKSONO, PH.D.

Postdoctoral Researcher, Harvard University  
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## EDUCATION

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**Northeastern University**, Boston, U.S.  
Ph.D. in Computer Science (Khoury College of Computer Sciences) 2014 - 2020  
Thesis: *A Social Cognition Framework for Interpersonal Informatics in Families*  
Committee: Andrea G. Parker, Stephen Intille, Magy Seif El-Nasr, and Sean Munson

M.S. in Computer Science (Khoury College of Computer Sciences) with Fulbright scholarship 2014

**Universitas Gadjah Mada**, Indonesia 2008  
B.Eng. in Electrical Engineering (College of Engineering)

## RESEARCH INTEREST

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My research contributes to the fields of **Human-Computer Interaction (HCI)** and **Computer-supported Cooperative Work (CSCW)**. My broad research aim is to investigate how to design technologies that help address health disparities. More specifically, I examine how health technologies can catalyze social interactions that help individuals and communities to manage their health and wellbeing. In my research, I have been conducting the entire human-centered design process by designing, building, and evaluating novel health technologies in collaboration with local community partners.

## EMPLOYMENT

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**Harvard University**, Cambridge, U.S.  
Postdoctoral Fellow, *Center for Research on Computation and Society* Sept 2020 - Present

**Northeastern University**, Boston, U.S.  
Graduate Research Assistant, *Wellness Technology Lab* Sept 2014 - Aug 2020  
Teaching Assistant (*Program Design Paradigm CS5010*) Spring 2013

**Universitas Gadjah Mada**, Indonesia  
E-Learning Coordinator 2008 - 2012

**Gamatechno**, Indonesia  
Senior Designer 2007 - 2008

## PEER-REVIEWED, ARCHIVAL CONFERENCE PAPERS

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Note: In computer and information sciences, conferences are top-tier publishing venues, with selectivity and impact often exceeding that of journals. See: <http://portal.acm.org/citation.cfm?id=1743546.1743569>.

- [1] **Herman Saksono**, Carmen Castaneda-Sceppa, Jessica Hoffman, Vivien Morris, Magy Seif El-Nasr, Andrea G. Parker. 2020. Storywell: Designing for Family Fitness App Motivation by Using Social Rewards and Reflection. In *CHI Conference on Human Factors in Computing Systems Proceedings (CHI 2020)*, April 25-30, 2020, Honolulu, Hawaii, US. ACM, New York, NY, USA, 13 pages. [24.3% acceptance rate]

- [2] **Herman Saksono**, Carmen Castaneda-Sceppa, Jessica Hoffman, Magy Seif El-Nasr, Vivien Morris, Andrea G. Parker. 2019. Social Reflections on Fitness Tracking Data: A Study with Families in Low-SES Neighborhoods. In *CHI Conference on Human Factors in Computing Systems Proceedings (CHI 2019)*, May 4-9, 2019, Glasgow, Scotland UK. ACM, New York, NY, USA, 14 pages. [23.8% acceptance rate]
- [3] **Herman Saksono**, Carmen Castaneda-Sceppa, Jessica Hoffman, Magy Seif El-Nasr, Vivien Morris, Andrea G. Parker. 2018. Family Health Promotion in Low-SES Neighborhoods: A Two-Month Study of Wearable Activity Tracking. In *Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems (CHI '18)*. ACM, New York, NY, USA, Paper 309, 13 pages. [26% acceptance rate]
- [4] Elizabeth Stowell, Mercedes C. Lyson, **Herman Saksono**, René C. Wurth, Holly Jimison, Misha Pavel, Andrea G. Parker. 2018. Designing and Evaluating mHealth Interventions for Vulnerable Populations: A Systematic Review. In *Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems (CHI '18)*. ACM, New York, NY, USA, Paper 15, 17 pages. [26% acceptance rate]. **Honorable Mention, Best Paper Award (top 5% of submissions)**
- [5] **Herman Saksono**, Andrea G. Parker. 2017. Reflective Informatics Through Family Storytelling: Self-Discovering Physical Activity Predictors. In *Proceedings of the 2017 CHI Conference on Human Factors in Computing Systems (CHI '17)*. ACM, New York, NY, USA, 5232-5244. [25% acceptance rate]
- [6] Farnaz Irannejad Bisafar, **Herman Saksono**, and Andrea G. Parker. 2016. Youth Advocacy in SNAs: Challenges for Addressing Health Disparities. In *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (CHI '16)*. ACM, New York, NY, USA, 3620-3624. [23% acceptance rate]
- [7] **Herman Saksono**, Ashwini Ranade, Geeta Kamarthi, Carmen Castaneda-Sceppa, Jessica Hoffman, Andrea G. Parker. 2015. Spaceship Launch: Designing a Collaborative Exergame for Families. In *Proceedings of the 18th ACM Conference of Computer-Supported Cooperative Work and Social Computing (CSCW '15)*. ACM, New York, NY, USA, 1776-1787. [28% acceptance rate]

## JOURNAL ARTICLE

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- [1] Xin Yao Lin, **Herman Saksono**, Elizabeth Stowell, Margie Lachman, Carmen Castaneda-Sceppa, Andrea G. Parker. 2020. Go&Grow: An Evaluation of a Pervasive Social Exergame for Caregivers of Loved Ones with Dementia. In *Proc. ACM Hum.-Comput. Interact.* 4, CSCW 2, Article 151 (October 2020).

## BOOK CHAPTER

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- [1] Andrea G. Parker, **Herman Saksono**, Jessica A. Hoffman, and Carmen Castaneda-Sceppa. 2017. A Community Health Orientation for Wellness Technology Design & Delivery. In *Designing Healthcare That Works: A Sociotechnical Approach*. Mark Ackerman, Sean Goggins, Thomas Herrmann, Michael Prilla and Christian Stary (eds.). Academic Press, Elsevier Inc. 59-76. ISBN 9780128125830

## ABSTRACTS PRESENTED AS POSTERS

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- [1] **Herman Saksono**, Andrea G. Parker. Storytelling as a Platform for Health Sensor Data Reflection and Physical Activity Promotion in a Family Setting. 2016. *Forum on Population Health Equity. Harvard T.H. Chan School of Public Health.*
- [2] Elizabeth Stowell, Mercedes Lyson, Rene Wurth, **Herman Saksono**, Holly Jimison, Misha Pavel, Andrea G. Parker. mHealth Research in Vulnerable Populations: A Systematic Review. 2016. *Forum on Population Health Equity. Harvard T.H. Chan School of Public Health.*

- [3] Ashwini Ranade, **Herman Saksono**, Andrea Grimes Parker, et al. Community-driven technology intervention promoting physical activity in a low-income neighborhood. 2014. *142nd APHA Annual Meeting*.

## WORKSHOP POSITION PAPERS

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- [1] **Herman Saksono**, Teresa O’Leary, Andrea G. Parker. 2020. Physical Activity Technology for Supporting Mental Health in Families. In *Technology Ecosystems: Rethinking Resources for Mental Health, CHI 2020*
- [2] Farnaz Irannejad Bisafar and **Herman Saksono**. 2019. Health Advocacy on Social Networking Applications: Co-Designing With Youth of Ethnic and Racial Minority. 2019. *Social Technologies for Digital Wellbeing Among Marginalized Communities at CSCW 2019*.
- [3] **Herman Saksono** and Andrea G. Parker. 2019. Designing for Psychological Needs in Fitness Tracking: Supporting Engagement and Adherence. *WISH19 Original Research Paper, Workgroup on Interactive System in Health at CHI 2019*.
- [4] **Herman Saksono** and Andrea G. Parker. Ecological Factors of Long-Term Family Physical Activity Tracking. 2018. *Workshop on Next Steps Towards Long-Term Self Tracking at CHI 2018*.
- [5] **Herman Saksono** and Andrea G. Parker. 2017. Storytelling as Space for Reflection on Parent and Child’s Physical Activity Data. *Quantified Data and Social Relationships Workshop at CHI 2017*.
- [6] Elizabeth Stowell, Mercedes C. Lyson, Reneé C. Wurth, **Herman Saksono**, Holly Jimison, Misha Pavel, Andrea G. Parker. 2016. mHealth Research in Vulnerable Populations: A Systematic Review. *WISH16 Poster, Workgroup on Interactive System in Health at CHI 2016*.
- [7] **Herman Saksono** and Andrea G. Parker. 2015. Health data-driven storytelling for physical activity promotion in families. *Moving Beyond e-Health and the Quantified Self at CSCW 2015*.

## LECTURES AND TEACHING

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**Northeastern University**, Boston, U.S.

Theory and Methods in HCI (Ph.D. CS core course, 8 students) Fall 2019

Guest lecture for Dr. Magy Seif El-Nasr. Title: “*Self-Determination Theory and Motivation*”

Human Computer Interaction (Undergraduate CS, 49 students) Fall 2019

Guest lecture for Stefán Ólafsson. Title: “*Envisioning and Paper Prototyping*”

Society, Behavior and Health (Public health graduate course, 35 students) Fall 2019

Guest lecture for Dr. Chris Chanyasukit. Title: “*Health Technology Design*”

Teaching Assistant for Program Design Paradigm *CS 5010* Spring 2013

Instructor: Dr. Mitchell Wand

## VOLUNTEER WORK

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### Program Committee

- ACM CSCW Papers (PACM HCI Journal), Associate Chair (2021)
- ACM CHI Late-Breaking Work, Associate Chair (2020)
- Pervasive Health, Program Committee member (2020)

### Paper Submissions Reviewer

- ACM CHI Paper (2017, 2018, 2019, 2020) and Late-Breaking Work (2016, 2017, 2019)

- ACM CSCW Paper (2018, 2019, 2020)
- ACM UbiComp/IMWUT (2017, 2020)
- ACM Transactions on Computer-Human Interaction (TOCHI) (2019, 2020)
- IEEE Transactions on Games (2019, 2020)
- ACM CHI Play (2018)
- ACM DIS (2018)

### Symposium and Workshop Organizer

- **WISH 2020 - The Workgroup on Interactive Systems in Health** Nov 2020  
Technology & Logistics Co-chair
- **Social Technologies for Digital Wellbeing Among Marginalized Communities** Nov 2019  
Michael A. Devito, Ashley Marie Walker, Jeremy Birnholtz, Kathryn Ringland, Kathryn Macapagal, Ashley Kraus, Sean Munson, Calvin Liang, **Herman Saksono**. 2019. Social Technologies for Digital Wellbeing Among Marginalized Communities. *CSCW 2019*. November 10, 2019. Austin, TX. Co-organizer.

### AWARDS AND HONORS

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- **Dean's Fellowship**, Northeastern University 2014 - 2015  
Offered to the most outstanding Ph.D. students who demonstrate exceptional academic promise.
- **Fulbright M.S. Scholarship**, U.S. Department of State 2012-2014  
International educational exchange program sponsored by the U.S. government.
- **Google's Internet at Liberty conference fellow**, Google 2012  
Conference to bring together NGOs, academics, governments and corporations focused on the many issues of internet liberty and creative ways to address these challenges.

### PROJECTS

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- **Experiential Learning Systems for Promoting Wellness in Low-Income Families** 2016 - Present  
*Graduate Research Assistant, Northeastern University. Grant: NSF CHS #1618406*  
*PI: Andrea G. Parker, Co-PIs: Jessica Hoffman, Carmen Sceppa, Magy Seif El-Nasr.*
  - Led the user-centered design processes with the PIs.
  - Conducted and qualitatively analyzed semi-structured interviews with adult caregivers and children.
  - Led the design and the development of a mobile app prototype using Android (Java), Firebase, and Python.
  - Mentored computer science and health science students.
- **Digital Support for Alzheimers Disease Caregivers** 2016-2019  
*Graduate Research Assistant, Northeastern University*  
*PI: Margie Lachman (Brandeis U.), NEU Site PI: Carmen Sceppa, Co-I: Andrea G. Parker*
  - Led the development of a mobile app prototype using Android (Java).
- **Systematic Review on mHealth Interventions for Vulnerable Populations** 2015 - 2018  
*Graduate Research Assistant, Northeastern University. Grant: AETNA Foundation.*  
*PI: Andrea G. Parker, Co-PIs: Holly Jimison, Misha Pavel.*

- Co-conducted data extraction and quality assessment on a total of 83 research papers

**Community-Driven Technologies for Physical Activity Promotion in Families** 2013-2014

*Graduate Research Assistant, Northeastern University. Grant: Northeastern University Tier 1*

*Lead Co-PI: Andrea G. Parker; Co-PIs: Jessica Hoffman & Carmen Sceppa.*

- Developed a web-based collaborative exercise game using Fitbit API, PHP, and JavaScript.
- Conducted interviews, focus groups, and participatory design workshops with adult caregivers and children.
- Conducted inductive qualitative analysis on the interview data.