

# Haley MacLeod

Phone: (315) 200-7644

E-Mail: hemacleo@indiana.edu

Website: www.haleymacleod.com



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## EDUCATION

- Expected 2018      **PhD in Health Informatics**  
Indiana University (Bloomington, IN, USA)  
**Minor:** Human Computer Interaction Design  
**Committee:** Kay Connelly (Co-Chair), Katie Siek (Co-Chair),  
Sriraam Natarajan, Norman Su, Mary Czerwinski (Microsoft Research),  
& Wanda Pratt (University of Washington)
- 2015              **MS in Human Computer Interaction Design**  
Indiana University (Bloomington, IN, USA)  
**Advisors:** Kay Connelly & Katie Siek
- 2013              **Bachelor of Commerce**  
University of Calgary (Calgary, AB, CAN)  
**Minor:** Computer Science  
**Advisor:** Tony Tang

## RESEARCH EXPERIENCE

- Fall 2017        UX Researcher (Contingent Worker)  
**Facebook** (Remote)  
Manager: Anand Tharanathan
- Summer 2017    UX Research Intern  
**Facebook** (Menlo Park, CA, USA)  
Mentor: Julia Mayer
- Summer 2016    Research Intern  
**Microsoft Research** (Redmond, WA, USA)  
Mentors: Ed Cutrell & Meredith Ringel Morris
- Summer 2015    HCI Research Intern  
**PARC, A Xerox Company** (Webster, NY, USA)  
Mentor: Karen Braun

- 2013–2015      Research Assistant  
**PHIT Lab**, Indiana University (Bloomington, IN, USA)  
 Advisor: Kay Connolly
- 2012–2013      Research Assistant  
**Interactions Lab**, University of Calgary (Calgary, AB, CAN)  
 Advisor: Tony Tang

## TEACHING EXPERIENCE

- 2016–Present    Teaching Assistant, Department of Computer Science  
 DePauw University (Greencastle, IN, USA)  
**Bridge to Informatics (Winter 2016, Winter 2017)**: Led lectures on survey design, sketching, applied machine learning, and data visualization. (11–15 undergraduate students)
- 2014–Present    Teaching Assistant, School of Informatics & Computing  
 Indiana University (Bloomington, IN, USA)  
**Advanced Prototyping (Fall 2017)**: Prepared lectures and provided hands on tutorials./assistance on 3D printing, laser cutting, and arduino development. (46 graduate students)  
**Pervasive & Mobile Design (Fall 2016)**: Led weekly lab section on Android & Arduino development. (17 graduate students)  
**Introduction to Health Informatics (Fall 2014, Fall 2015)**: Prepared weekly quizzes and assisted in preparing midterm & final exams. (40 undergraduate & graduate students)  
**Mobile Application Development (Spring 2014)**: Assisted students with development assignments. (40 undergraduate students)
- 2012              Teaching Assistant, Haskayne School of Business  
 University of Calgary (Calgary, AB, CAN)  
**Intro. to Management Information Systems (Winter 2012)**: Led weekly lab sections on database & spreadsheet software use. (60 undergraduate students)

## SERVICE

### *Mentoring & Advising*

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|-----------|-----------------|--|
| 2017      | Gustave Ekobe   | Undergraduate Research Opportunities in Computing  |
| 2016–2017 | Vanessa Pereira | Emerging Scholars Research for Undergraduate Women |
| 2016–2017 | Jasmine McClain | Emerging Scholars Research for Undergraduate Women |
| 2015–2016 | Grace Bastin    | Emerging Scholars Research for Undergraduate Women |
| 2015      | Katie Spoon     | Emerging Scholars Research for Undergraduate Women |
| 2015      | Krish Puri      | Undergraduate Research Opportunities in Computing  |
| 2015      | Gleb Alexeev    | Undergraduate Research Opportunities in Computing  |

2014–2015	Alec Byrd	Senior Thesis
2014	Taha Merghani	HBCU Summer Scholar's Institute
2014	Danika Geisler	Summer Research Experiences for Undergraduates

### *Conference Program Committees*

2017	ACM DIS Specific Application Areas Subcommittee (Associate Chair)
2016,2018	ACM CHI Late Breaking Work (Associate Chair)

### *Conference Organizing Committees*

2018, 2019	CHI Student Volunteer Co-Chair
2017	Indiana Women in Computing (InWIC) Sessions Committee Member
2016	Indiana Women in Computing (InWIC) Social Media Chair

### *Conference Student Volunteer*

2013–2017	ACM Conference on Human Factors in Computing Systems (CHI)
2013	GRAND Network Centres of Excellence Meeting (GRAND)

### *Reviewing*

ACII, AMIA, CHI, CSCW, DIS, EAI Transactions, iConference, Graphics Interface, GRAND, IEEE Access, IU GPSG Research Awards & Travel Awards, JMIR, MobileHCI, Pervasive Health

### *Community Service*

2016–2017	<b>Graduate &amp; Professional Student Government (GPSG)</b> Indiana University (Bloomington, IN, USA) <ul style="list-style-type: none"> <li>• Benefits Officer (2017)</li> <li>• Student Academic Appointments Review Board (2016–2017)</li> <li>• GPSG Assembly Representative for Informatics (2016)</li> <li>• GPSG Benefits Committee Member (2016)</li> </ul>
2014–2017	<b>Graduate Informatics Students Association (GISA)</b> Indiana University (Bloomington, IN, USA) <ul style="list-style-type: none"> <li>• Institutional Voice Chair (2015–2017)</li> <li>• Informatics Graduate Program Committee (GPC) (2015–2017)</li> <li>• Prospective Student Visit Weekend Co-Organizer (2015)</li> <li>• Graduate Student Health &amp; Wellness Committee (2014–2015)</li> </ul>
2014–2017	<b>Student Ambassador, School of Informatics &amp; Computing</b> Indiana University (Bloomington, IN, USA)
2013	<b>Assistant Instructor, CEMC Workshop in Computer Science for Young Women</b>

	University of Calgary (Calgary, AB, Canada)
2010–2012	<b>VP Communications, Women in Science &amp; Engineering</b> University of Calgary (Calgary, AB, Canada)
2009–2011	<b>Mentor, Cybermentor</b> (Calgary, AB, Canada)
2009, 2010	<b>Assistant Instructor, Explore IT</b> University of Calgary (Calgary, AB, Canada)

## AWARDS & RECOGNITIONS

### *Research Funding*

2017	Rare Disease Foundation: Investigating a Recommender System Approach to Tangible Support for People with Rare Diseases. \$2,450. (PI: <b>Haley MacLeod, with Kay Connelly and Katie Siek</b> ).
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### *Best Paper Awards & Nominations*

2017	ACM CHI 2017 Best Paper Nomination
2015	EAI Pervasive Health 2015 Best Paper Nomination
2015	ACM CHI 2015 Best Paper Nomination
2014	WISH 2014 Best Paper Award
2014	ACM CHI 2014 Best Paper Nomination

### *Travel Awards*

2017	NSF Smart & Connected Health Outreach Event Travel Award
2016	GPSG Travel Award
2016	IU School of Informatics & Computing InWIC 2016 Travel Grant
2016	NSF Student Travel Award for TAPIA 2016
2016	NSF Student Travel Award for IEEE CHASE 2016
2016	IU Provost's Travel Award for Women in Science
2016	ACM Travel Award for CHI 2016
2014	IU School of Informatics & Computing Grace Hopper 2014 Travel Grant
2014	Student Travel Award for AMIA 2014

### *Other Awards*

2017	IU School of Informatics & Computing Cross-Track Collaboration Award
2015–2016	IU School of Informatics & Computing Associate Instructor of the Year
2008	University of Calgary Admission Scholarship
2008	University of Calgary Dean's Merit Admission Award
2005–2008	Alexander Rutherford Scholarship

## PUBLICATIONS

### *Journal Papers*

- [J1] Haley MacLeod, Ben Jelen, Annu Prabhakar, Lora Oehlberg, Katie Siek, and Kay Connelly. 2017. A Guide to Using Asynchronous Remote Communities (ARC) for Researching Distributed Populations. *EAI Endorsed Transactions on Pervasive Health and Technology* 17, 11 (7 2017). DOI: <http://dx.doi.org/10.4108/eai.18-7-2017.152898>

### *Conference Papers*

- [C10] Fateme Rajabiyadi, Charles Perin, Jo Vermeulen, Haley MacLeod, Diane Gromala, and Sheelagh Carpendale. 2017. Differences That Matter: In-Clinic Communication Challenges. In Proceedings of the 11th EAI International Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth '17). (Acceptance: 25%)
- [C9] Haley MacLeod, Cynthia L. Bennett, Meredith Ringel Morris, and Edward Cutrell. 2017. Understanding Blind People's Experiences with Computer-Generated Captions of Social Media Images. In Proceedings of the 2017 CHI Conference on Human Factors in Computing Systems (CHI '17). ACM, New York, NY, USA, 5988–5999. DOI: <http://dx.doi.org/10.1145/3025453.3025814>. (Acceptance: 25%)
- [C8] Haley MacLeod, Grace Bastin<sup>1</sup>, Leslie S. Liu, Katie Siek, and Kay Connelly. 2017. "Be Grateful You Don't Have a Real Disease": Understanding Rare Disease Relationships. In Proceedings of the 2017 CHI Conference on Human Factors in Computing Systems (CHI '17). ACM, New York, NY, USA, 1660–1673. DOI: <http://dx.doi.org/10.1145/3025453.3025796>. (Acceptance: 25%)
- [C7] Annu Sible Prabhakar, Lucia Guerra-Reyes, Vanessa M. Kleinschmidt, Ben Jelen, Haley MacLeod, Kay Connelly, and Katie A. Siek. 2017. Investigating the Suitability of the Asynchronous, Remote, Community-based Method for Pregnant and New Mothers. In Proceedings of the 2017 CHI Conference on Human Factors in Computing Systems (CHI '17). ACM, New York, NY, USA, 4924–4934. DOI: <http://dx.doi.org/10.1145/3025453.3025546>. (Acceptance: 25%) – **Honourable Mention Award** (top 5%).
- [C6] Haley MacLeod, Shuo Yang, Kim Oakes, Kay Connelly, and Sriraam Natarajan. 2016. Identifying Rare Diseases from Behavioural Data: A Machine Learning Approach. In Connected Health: Applications, Systems and Engineering Technologies (CHASE), 2016 IEEE First International Conference on. IEEE, 130–139. DOI: <http://dx.doi.org/10.1109/CHASE.2016.7>. (Acceptance: 23%).
- [C5] Haley MacLeod, Ben Jelen, Annu Prabhakar, Lora Oehlberg, Katie Siek, and Kay Connelly. 2016. Asynchronous Remote Communities (ARC) for Researching Distributed Populations. In Proceedings of the 10th EAI International Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth '16). ICST (Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering), ICST, Brussels, Belgium, Belgium, 1–8. (Acceptance 35%).

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<sup>1</sup>Co-author is a trainee

- [C4] Kim Oakes, Katie A. Siek, and Haley MacLeod. 2015. MuscleMemory: Identifying the Scope of Wearable Technology in High Intensity Exercise Communities. In Proceedings of the 9th International Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth '15). ICST (Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering), ICST, Brussels, Belgium, Belgium, 193–20. (Acceptance: 30%) – **Best Paper Nomination**.
- [C3] Haley MacLeod, Kim Oakes, Danika Geisler<sup>1</sup>, Kay Connelly, and Katie Siek. 2015. Rare World: Towards Technology for Rare Diseases. In Proceedings of the 33rd Annual ACM Conference on Human Factors in Computing Systems (CHI '15). ACM, New York, NY, USA, 1145–1154. DOI: <http://dx.doi.org/10.1145/2702123.2702494>. (Acceptance: 23%) – **Honourable Mention Award** (top 5%).
- [C2] Maayan Cohen, Kody R. Dillman, Haley MacLeod, Seth Hunter, and Anthony Tang. 2014. OneSpace: Shared Visual Scenes for Active Freeplay. In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (CHI '14). ACM, New York, NY, USA, 2177–2180. DOI: <http://dx.doi.org/10.1145/2556288.2557117>. (Acceptance: 22.8%) - **Honourable Mention Award** (top 5%).
- [C1] Haley MacLeod, Anthony Tang, and Sheelagh Carpendale. 2013. Personal Informatics in Chronic Illness Management. In Proceedings of Graphics Interface 2013 (GI '13). Canadian Information Processing Society, Toronto, Ont., Canada, Canada, 149–156. (Acceptance 38%).

### *Extended Abstracts*

- [EA2] Haley MacLeod, Ben Jelen, Annu Prabhakar, Lora Oehlberg, Katie A. Siek, and Kay Connelly. 2016. Lessons Learned from Conducting Group-Based Research on Facebook. In Proceedings of the 2016 CHI Conference Extended Abstracts on Human Factors in Computing Systems (CHI EA '16). ACM, New York, NY, USA, 804–815. DOI: <http://dx.doi.org/10.1145/2851581.285161>
- [EA1] Haley MacLeod and Anthony Tang. 2013. Towards Personal Informatics Tools for Chronic Illness Management. In Proceedings of GRAND Network Centres of Excellence Meeting. (Acceptance 53%).

### *Workshop Papers*

- [W7] Haley MacLeod, Jacob Abbott, Sameer Patil. Small Data Privacy Protection: An Exploration of the Utility of Anonymized Data of People with Rare Diseases. In Proceedings of the 2017 Workshop on Interactive Systems in Healthcare (WISH '17).
- [W6] Julia C. Dunbar, Ciabhan L. Connelly, Juan F. Maestre, Haley MacLeod, Katie Siek, Patrick C. Shih. 2017. Considerations for Using the Asynchronous Remote Communities (ARC) Method in Health Informatics Research. In Proceedings of the 2017 Workshop on Interactive Systems in Healthcare (WISH '17).
- [W5] Haley MacLeod, Maia Jacobs, Katie Siek, Kay Connelly, and Elizabeth D. Mynatt. 2016. Ethical Considerations in Pervasive Health Research. In Pervasive Health 2016 Workshop on the Future of Pervasive Health.

- [W4] Haley MacLeod, Kim Oakes, Kay Connelly, and Katie Siek. 2015. Methods for Studying Rare Disease Populations. In CHI 2015 Workshop on Advancing Health and Wellness Technology Research in Home and Community Settings.
- [W3] Haley MacLeod, Denique Ferguson, Scott Trepper, and Steve Layton. 2014. Better Bites: Healthy Food Within A Budget. In Proceedings of the 2014 Workshop on Interactive Systems in Healthcare (WISH '14) – **Best Paper Award**.
- [W2] Haley MacLeod and Anthony Tang. 2013. Shared Displays to Facilitate Discussions Surrounding Patient Data. In Proceedings of the CHI 2013 Workshop on Patient-Client Communication.
- [W1] Haley MacLeod and Anthony Tang. 2012. Understanding Personal Informatics Needs of Individuals with Chronic Health Conditions. In Proceedings of the 2012 Workshop on Interactive Systems in Healthcare (WISH '12).

### *Doctoral Consortia*

- [DC3] Haley MacLeod. 2016. Design and Development of a Sociotechnical Intervention for People with Rare Diseases. In Proceedings of the 2016 ACM Richard Tapia Celebration of Diversity in Computing (TAPIA '16).
- [DC2] Haley MacLeod. 2016. Rare World: Designing for Dispersed Populations with Rare Diseases. In Proceedings of the 2016 CHI Conference Extended Abstracts on Human Factors in Computing Systems (CHI EA '16). ACM, New York, NY, USA, 229–233. DOI: <http://dx.doi.org/10.1145/2851581.2859026>.
- [DC1] Haley MacLeod. 2014. Rare World: Designing for Dispersed Populations with Rare Diseases. In Proceedings of the AMIA 2014 Doctoral Consortium on Sociotechnical Issues in Biomedical Informatics (AMIA '14).

### *Posters*

- [P11] Haley MacLeod. 2017. Rare World: Designing for Dispersed Populations with Rare Diseases. Poster presented at NSF Smart & Connected Health Meeting.
- [P10] Haley MacLeod, Shuo Yang, Kim Oakes, Kay Connelly, and Sriraam Natarajan. 2016. Identifying Rare Diseases from Behavioural Data: A Machine Learning Approach. Poster presented at InWIC 2016.
- [P9] Haley MacLeod. 2016. Rare World: Designing for Dispersed Populations with Rare Diseases. Poster presented at CHI 2016.
- [P8] Grace Bastin,<sup>1</sup> Haley MacLeod, Leslie S. Liu, Katie Siek, and Kay Connelly. 2015. “At Least You Don’t Have a Real Disease”: Understanding Rare Disease Relationships. Poster presented at CEWIT Women’s Research Poster Competition 2016.
- [P7] Haley MacLeod. 2015. Rare World: Designing for Dispersed Populations with Rare Diseases. Poster presented at CEWIT Women’s Research Poster Competition 2016.
- [P6] Haley MacLeod. 2016. Rare Diseases. Poster presented at GISA Un-poster Session 2016.



- [P5] Haley MacLeod. 2015. Technology for Rare Diseases. Poster presented at GISA Un-poster Session 2015 – **Most Human-Oriented Award**.
- [P4] Haley MacLeod. 2014. Design and Development of a Sociotechnical Intervention for People with Rare Diseases. Poster presented at WISH 2014.
- [P3] Haley MacLeod and Kay Connelly. 2014. Developing Mobile Self-Monitoring Support for Healthy Me. Poster presented at InWIC 2014.
- [P2] Haley MacLeod, and Anthony Tang. 2012. Understanding Personal Informatics Needs of Individuals with Chronic Health Conditions. Poster presented at WISH 2012.
- [P1] Haley MacLeod, and Anthony Tang. 2012. Understanding Personal Informatics Needs of Individuals with Chronic Health Conditions. Poster presented at the W21C 2012 International Innovation Forum.

### *Invited Talks*

- [IT3] Asynchronous Remote Communities (ARC) for Researching Distributed Populations. 2017. Invited talk for W21C Journal Club in Calgary, AB, Canada.
- [IT2] Whose Life Is It Anyways? Empowering Personal Decision Making in Health. 2015. Keynote speaker for the ANT+ Alliance Symposium in Banff, AB, Canada.
- [IT1] Rare World: Towards Technology for Rare Diseases. 2015. Invited talk for the Interactions Lab at the University of Calgary in Calgary, AB, Canada.

### *Conference Presentations*

- [CP8] Understanding Blind People’s Experiences with Computer-Generated Captions of Social Media Images. 2017. Presented at CHI 2017.
- [CP7] “Be Grateful You Don’t Have a Real Disease”: Understanding Rare Disease Relationships. 2017. Presented at CHI 2017.
- [CP6] Identifying Rare Diseases from Behavioural Data: A Machine Learning Approach. 2016. Presented at CHASE 2016.
- [CP5] Asynchronous Remote Communities (ARC) for Researching Distributed Populations. 2016. Presented at Pervasive Health 2016.
- [CP4] Lessons Learned from Conducting Group-Based Research on Facebook. 2016. Presented at CHI 2016.
- [CP3] Rare World: Towards Technology for Rare Diseases. 2015. Presented at CHI 2015.
- [CP2] OneSpace: Shared Visual Scenes for Active Freeplay. 2014. Presented at CHI 2014.
- [CP1] Personal Informatics in Chronic Illness Management. 2013. Presented at Graphics Interface 2013.



## *Panels*

- [P3] Grace Bastin, Katherine Metcalf, Joyce Main, and Haley MacLeod. Exemplary Research in Computing. Panel presented at INWiC 2017.
- [P2] Ray Maker, Jon Bruner, Paul Dorotich, and Haley MacLeod 2015. The Quantified Self: Capturing, Connecting and Interpreting. Panel presented at the ANT+ Alliance Symposium 2015.
- [P1] Jennifer Bernhard, Tiffany Trusty, Haley MacLeod, and Priyanka Brunese. 2014. Graduate School Panel Session. Panel presented at InWIC 2014.

## *Demonstrations*

- [D1] Kody Dillman, Haley MacLeod, David Ledo, Bon Adriel Aseniero, Sebastian Boring and Anthony Tang. 2013. OneSpace: Seeing Oneself in a Shared Mirror for Play and Learning. Demonstration given at GRAND 2013.

## *Workshop Presentations*

- [WP11] Rare World: Investigating Social Support in Rare Disease and Common Chronic Illness Communities. 2017. Presented at the NSF Smart & Connected Health Meeting.
- [WP10] Rare World: Designing for Dispersed Populations with Rare Diseases. 2016. Presented at the TAPIA 2016 Doctoral Consortium.
- [WP9] Ethical Considerations for Pervasive Health Research. 2016. Presented at the Pervasive Health 2016 Workshop on the Future of Pervasive Health.
- [WP8] Rare World: Designing for Dispersed Populations with Rare Diseases. 2016. Presented at the CHI 2016 Doctoral Consortium.
- [WP7] Methods for Studying Rare Disease Populations. 2015. Presented at the CHI 2015 Workshop on Advancing Health & Wellness Technology Research in Home and Community Settings.
- [WP6] Design and Development of a Sociotechnical Intervention for People with Rare Diseases. 2014. Presented at the AMIA 2014 Doctoral Consortium on Sociotechnical Issues in Biomedical Informatics.
- [WP5] Better Bites: Healthy Food within a Budget. 2014. Presented at the Workshop on Interactive Systems in Healthcare (WISH) 2014.
- [WP4] Developing Mobile Self-Monitoring Support for Healthy Me. 2014. Presented at Consumer Health Informatics in the Midwest (CHIM) 2014.
- [WP3] Towards Personal Informatics Tools for Chronic Illness Management. 2013. Presented at GRAND 2013.
- [WP2] Shared Displays to Facilitate Discussions Surrounding Patient Data. 2013. Presented at CHI 2013 Workshop on Patient-Clinician Communication.
- [WP1] Understanding Personal Informatics Needs of Individuals with Chronic Health Conditions. 2012. Presented at the Workshop on Interactive Systems in Healthcare 2012.