

Chia-Fang (Christina) Chung

Assistant Professor
Computational Media, Baskin School of Engineering
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Research Interests

Designing systems and services to support healthcare, wellness, and relationships
Personal Informatics, Ubiquitous Computing, Computer-Supported Cooperative Work

Education

- University of Washington, Seattle, USA 2012 - 2018
PhD, Human Centered Design & Engineering
Dissertation: Using Personal Informatics Data in Collaboration among People with Different Expertise
Advisor: Sean Munson
- National Taiwan University, Taipei, Taiwan 2004 - 2006
MBA, Information Management
Thesis: Design and Implementation of a Stateful High Speed Intrusion Detection System
Advisor: Yeali Sunny Sun
- BBA, Information Management 2000 - 2004

Refereed Journal Articles

- J12 "It's like living a different life, going to the moon": Rethinking Space and Activity in the Context of COVID-19 2024
Novia Nurain*, Chia-Fang Chung, Clara Caldeira, Kay Connelly
Computer Supported Cooperative Work (CSCW); To Appear, 55 pages.
- J11 Survey on the Past Decade of Technology in Animal Enrichment: A Scoping Review 2022
Cassie K. Kresnye*, Chia-Fang Chung, Christopher Flynn Martin, and Patrick C. Shih.
Animals 12, no. 14 (2022): 1792.
- J10 Hugging with a Shower Curtain: Older Adults' Social Support Realities During the COVID-19 Pandemic 2021
Novia Nurain*, Chia-Fang Chung, Clara Caldeira, Kay Connelly
PACM. Human-Computer Interaction 2021; 5(CSCW2), 31 pages. [Impact Recognition](#)
- J9 Not Another Medication Adherence App: Critical Reflections on Addressing Public HIV-related Stigma Through Design 2020
Juan F. Maestre*, Patrycja Zdziarska*, Aehong Min*, Anna Baglione*, Chia-Fang Chung, Patrick C. Shih
PACM. Human-Computer Interaction 2020; 4(CSCW3), 28 pages.
- J8 The Importance of Starting with Goals in N-of-1 Studies 2020
Sean A. Munson, Jessica Schroeder, Ravi Karkar, Julie A. Kientz, Chia-Fang Chung, James Fogarty
Frontiers in Digital Health 2020; 2(3), 7 pages.
- J7 Changing Roles and Contexts: Symbolic Interactionism in the Sharing of Food and Eating Practices between Remote, Intergenerational Family Members 2020

* Graduate student collaborators

- Aswati Panicker*, Kavya Basu*, and Chia-Fang Chung
 PACM Human-Computer Interaction 2020; 4(CSCW1), 17 pages. Acceptance Rate: 25.3%
- J6 **Identifying and Planning for Individualized Change: Patient-Provider Collaboration Using Lightweight Food Diaries in Healthy Eating and Irritable Bowel Syndrome** 2019
 Chia-Fang Chung, Qiaosi Wang⁺, Jessica Schroeder, Alison Cole, Jasmine Zia, James Fogarty, Sean A. Munson
 PACM Interactive, Mobile, Wearable and Ubiquitous Technologies; 2019; 3(1). 27 pages. Acceptance Rates 23.5%
- J5 **Inter-Rater Reliability of Provider Interpretations of Irritable Bowel Syndrome Food and Symptom Journals** 2017
 Jasmine Zia, Chia-Fang Chung, Kaiyuan Xu*, Yi Dong*, Jeanette M. Schenk, Kevin Cain, Sean Munson, Margaret Heitkemper
 Journal of Clinical Medicine;6(11):105, 9 pages.
- J4 **Should you always have a backup? One vs. Two Goals in Games** 2017
 Chia-Fang Chung and Sean A. Munson
 International Journal of Human-Computer Studies;108:32-40, 9 pages. Impact Factor: 3.163
- J3 **The Feasibility, Usability, and Perceived Clinical Utility of Traditional Paper Food and Symptom Journals for Patients with Irritable Bowel Syndrome** 2016
 Jasmine Zia, Chia-Fang Chung, Jessica Schroeder, Sean A. Munson, Julie A. Kientz, James Fogarty, Elizabeth Bales, Jeanette Schenk, Margaret Heitkemper
 Neurogastroenterology and Motility;28:e12935, 11 pages. Impact Factor: 2.946
- J2 **Implementation of a New Kiosk Technology for Blood Pressure Management in a Family Medicine Clinic: from the WWAMI region Practice and Research Network** 2016
 Chia-Fang Chung, Sean A. Munson, Matthew J. Thompson, Laura-Mae Baldwin, Jeffrey Kaplan, Randall Cline, Beverly B Green
 Journal of the American Board of Family Medicine 2016;29:620–629, 9 pages. Impact Factor: 2.661
- J1 **More Than Telemonitoring: Health Provider Use and Nonuse of Life-Log Data in Irritable Bowel Syndrome and Weight Management** 2015
 Chia-Fang Chung, Jonathan Cook, Elizabeth Bales, Jasmine Zia, Sean A. Munson
 Journal of Medical Internet Research 2015;17(8):e203, 26 pages. Impact Factor: 4.945

Refereed Conference Papers with Proceedings

- c16 **Understanding Fraudulence in Online Qualitative Studies: From the Researcher's Perspective** 2024
 Aswati Panicker*, Novia Nurain*, Zaidat Ibrahim*, Chun-Han (Ariel) Wang*, Seung Wan Ha*, Yuxing Wu*, Kay Connelly, Katie A. Siek, Chia-Fang Chung
 CHI 2024, To Appear
- c15 **New Understandings of Loss: Examining the Role of Reflective Technology Within Bereavement and Meaning-Making** 2024
 Colin LeFevre⁺ and Chia-Fang Chung
 CHI 2024, To Appear

⁺ Undergraduate student collaborators

c14	<p>Dancing with the Roles: Towards Designing Technology that Supports the Multifaceted Roles of Caregivers for Older Adults</p> <p>Long-Jing Hsu* and Chia-Fang Chung</p> <p>CHI 2024, To Appear</p>	2024
c13	<p>Designing a Card-Based Design Tool to Bridge Academic Research & Design Practice For Societal Resilience</p> <p>Novia Nurain*, Chia-Fang Chung, Clara Caldeira, Kay Connelly</p> <p>CHI 2024, To Appear</p>	2024
c12	<p>Supporting Experiential Learning in People with Gestational Diabetes Mellitus</p> <p>Zaidat Ibrahim*, Clara Caldeira, Chia-Fang Chung</p> <p>CHI 2024, To Appear</p>	2024
c11	<p>"I left my legacy, told my story": Understanding Older Adults' Tracking Practices to Promote Active Aging</p> <p>Novia Nurain*, Chia-Fang Chung</p> <p>DIS 2023, 459-475, 17 pages</p>	2023
c10	<p>Avoiding Reactions Outside the Home: Challenges, Strategies, and Opportunities to Enhance Dining Out Experiences of People with Food Hypersensitivities</p> <p>Francisco Nunes, João Almeida*, Chia-Fang Chung, Nervo Verdezoto</p> <p>CHI 2021 (Article 208), 16 pages. Acceptance rate: 26.3%</p>	2021
c9	<p>Signal Appropriation of Explicit HIV Status Disclosure Fields in Sex-Social Apps used by Gay and Bisexual Men</p> <p>Mark Warner*, Juan F. Maestre*, Jo Gibbs, Chia-Fang Chung, Ann Blandford</p> <p>CHI 2019 (1-15), 15 pages. Acceptance rate: 23.8%</p>	2019
c8	<p>Opportunities for Oral Health Monitoring Technologies Beyond the Dental Clinic</p> <p>Adele Parsons*, Chia-Fang Chung, Molly Donohue*, Sean Munson, Eric Seibel</p> <p>Pervasive Health 2018 (327-335), 9 pages. Acceptance rate: 24%</p>	2018
c7	<p>Examining Self-Tracking by People with Migraine: Goals, Needs, and Opportunities in a Chronic Health Condition</p> <p>Jessica Schroeder, Chia-Fang Chung, Daniel A. Epstein, Ravi Karkar, Adele Parsons, Natalia Murinova, James Fogarty, Sean A. Munson</p> <p>DIS 2018 (135-148), 14 pages. Acceptance rate: 23% Best Paper Honorable Mention (Top 5%)</p>	2018
c6	<p>Finding the Right Fit: Understanding Health Tracking in Workplace Wellness Programs</p> <p>Chia-Fang Chung, Nanna Gorm, Irina Shklovski, Sean A. Munson</p> <p>CHI 2017 (4875-4886), 12 pages. Acceptance rate: 25% Best Paper Honorable Mention (Top 5%)</p>	2017
c5	<p>When Personal Tracking Becomes Social: Examining the Use of Instagram for Healthy Eating</p> <p>Chia-Fang Chung, Elena Agapie, Jessica Schroeder, Sonali Mishra, James Fogarty, Sean A. Munson</p> <p>CHI 2017 (1674-1687), 14 pages. Acceptance rate: 25%</p>	2017
c4	<p>Supporting Patient-Provider Collaboration to Identify Individual Triggers using Food and Symptom Journals</p> <p>Jessica Schroeder, Jane Hoffswell, Chia-Fang Chung, James Fogarty, Sean Munson, Jasmine Zia</p> <p>CSCW 2017. (1726-1739), 14 pages. Acceptance rate: 35%</p>	2017

- c3 **Integrating Population-based Patterns with Personal Routine to Re-engage Fitbit Use** 2016
Chia-Fang Chung and Catalina M. Danis
PervasiveHealth 2016 (154-161), 8 pages. Acceptance rate: 30%
- c2 **Boundary Negotiating Artifacts in Personal Informatics: Patient-Provider Collaboration with Patient-Generated Data** 2016
Chia-Fang Chung, Kristin Dew, Alison Cole, Jasmine Zia, James Fogarty, Julie A. Kientz, Sean A. Munson
CSCW 2016 (770-786), 17 pages. Acceptance rate: 25% **Best Paper Award (Top 1%)**
- c1 **GreenOlive: An open platform for wellness management ecosystem** 2010
Liangzhao Zeng, Pei-Yue Hsueh, Henry Chang, Christina Chung, Rick Huang
IEEE SOLI 2010 (88-93), 6 pages

Abstracts and Extended Abstracts

- A14 **A Rapid, Iterative, and Remote (RIR) Method for Designing Translational Tools: Study Experience and Lessons Learned** 2023
Novia Nurain*, Chia-Fang Chung, Clara Caldeira, and Kay Connelly
Work-in-Progress, DIS 2023 **Best Work-in-Progress Award**
- A13 **"A Safe Space to Think About Grief": Reflecting on Bereavement Through Video Games and Experiential Metaphor** 2023
Colin LeFevre*, Chia-Fang Chung
Work-in-Progress, Workshop on Interactive Systems in Healthcare (WISH), CHI 2023
- A12 **Designing for Everyday Family Wellness: Understanding Norms and Rituals for Supporting Family Meal Practices** 2023
Yuxing Wu*, Andrew D. Miller, Chia-Fang Chung
Work-in-Progress, Workshop on Interactive Systems in Healthcare (WISH), CHI 2023
- A11 **"TikTok Made Me Do It": Teenagers' Perception and Use of Food Content on TikTok** 2022
Chun-Han Wang*, Stephen Tsung-Han Sher*, Kelly Janek*, Isabela Salman*, Chia-Fang Chung
Work-in-Progress, Interaction Design and Children (IDC) 2022, 458-463
- A10 **Computer Vision for Dietary Assessment** 2021
Chia-Fang Chung, Alejandra Ramos*, Pei-Ni Chiang*, Chien-Chun Wu*, Connie Ann Tan*, Weslie Khoo, David Crandall
Workshop on Realizing AI in Healthcare: Challenges Appearing in the Wild, CHI 2021
- A9 **Meal Chat: Promoting Mealtime Social Interaction for College Students** 2020
Yuxing Wu*, Elisa Krebs*, Adithya Hassan Shankaranand*, Patrick Shih, Chia-Fang Chung
Late Breaking Work, CHI 2020
- A8 **Supporting patient-provider communication and engagement with personal informatics data** 2017
Chia-Fang Chung
Doctoral Colloquium, UbiComp/ISWC 2017
- A7 **The Feasibility, Usability and Perceived Clinical Utility of Traditional Paper Food and Symptom Journals for Patients with Irritable Bowel Syndrome** 2016
Jasmine Zia, Chia-Fang Chung, Jessica Schroeder, Jeanette Schenk, Sean Munson, Julie Kientz, James Fogarty, Margaret Heitkemper
The 2nd Federation of Neurogastroenterology & Motility Joint International Meeting (FNM 2016), San Francisco, CA.

- A6 **Flip the Clinic: Implementing Patient Self-measurement of Blood Pressure Using a Kiosk in a Clinic Waiting Room** 2016
Beverly B. Green, Chia-Fang Chung, Laura-Mae Baldwin, Sean Munson, Matthew J. Thompson
2016 American Society of Hypertension Annual Meeting, New York City
- A5 **Patient and Provider Goals and the Using Patient-Generated Data in IBS and Weight Management** 2016
Chia-Fang Chung, Kristin Dew, Jonathan Cook, Elizabeth Bales, Alison Cole, Jasmine Zia, James Fogarty, Julie Kientz, Sean Munson
Workshop on Interactive Systems in Healthcare (WISH), CHI 2016.
- A4 **Inter-rater Reliability of Healthcare Provider Interpretations of Food and Gastrointestinal Symptom Paper Diaries of Patients with Irritable Bowel Syndrome** 2016
Jasmine Zia, Chia-Fang Chung, Kaiyuan Xu, Yi Dong, Kevin Cain, Sean Munson, Margaret Heitkemper
2016 Digestive Disease Week, San Diego, CA.
- A3 **Patient and Provider Goals and Collaboration Process of Using Patient-Generated Data** 2016
Chia-Fang Chung, Kristin Dew, Jonathan Cook, Elizabeth Bales, Alison Cole, Jasmine Zia, James Fogarty, Julie Kientz, Sean Munson
Symposium on Use of Patient-Generated Data Beyond Self-Regulation. 2016 Conference of the International Society for Research on Internet Interventions (ISRII). Seattle, WA.
- A2 **Temperature Sharing to Support Remote Relationships** 2014
Chia-Fang Chung, James Hwang, Sean Munson
UbiComp Adjunct 2014 (27-30)
- A1 **Modeling Conceptual Work Products in a Multiple Sclerosis Clinic to Design a Superior User Interface** 2013
Andrew Berry, Craig Harrington, Keith Butler, Melissa Braxton, Mark Haselkorn, Amy Walker, Mark Oberle, Chia-Fang Chung, Nikki Pete, W. Paul Nichol
Workshop on Interactive Systems in Healthcare (WISH), AMIA 2013

Workshop Papers and Posters

- w8 **"I Don't Need a Megaphone to Be Helpful": Probing the Role of Technology in Pro-Choice Abortion Activism** 2023
Colin LeFevre⁺, Aswati Panicker⁺, Sitha Vallabhaneni⁺, Nikhil Dinesh⁺, Forum Modi⁺, Katie Siek, Chia-Fang Chung
Poster, CSCW 2023
- w7 **Cooking Stories: Connecting Remote Families Through the Sharing of Cooking Experiences** 2022
Forum Modi⁺, Colin LeFevre⁺, Nikhil Dinesh⁺, Aswati Panicker⁺, Chia-Fang Chung
Poster, 20th European Conference on Computer-Supported Cooperative Work (ECSCW) 2022
- w6 **Understanding healthy eating and food-related activities during life events** 2022
Seung Wan Ha⁺, Novia Nurain⁺, Elena Agapie, Chia-Fang Chung
Poster, SBM: Society of Behavioral Medicine Annual Meeting & Scientific Sessions 2022
- w5 **Designing to support the exchange of food and eating practices between remote, inter-generational family members** 2021
Aswati Panicker⁺, Kavya Basu⁺, Chia-Fang Chung
Workshop on The Future of Human-Food Interaction, CHI 2021

- w4 **Supporting Patient-Provider Communication and Relationships with Personal Informatics Data** 2017
Chia-Fang Chung, Jessica Schroeder, Jasmine Zia, James Fogarty, Julie A. Kientz, Sean A. Munson
Workshop on Quantified Data and Social Relationship, CHI 2017
- w3 **Evidence-based HealthIT for Patient-Provider Communication** 2013
Keith Butler, Mark Haselkorn, Melissa Braxton, W. Paul Nichol, Andrew Berry, Chia-Fang Chung
Workshop on Patient-Clinician Communication, CHI 2013
- w2 **An Intervention Recommendation Engine Approach for Chronic Disease Management** 2012
Christina CF Chung
Technical session on CPMS, the practice section, INFORMS International 2012
- w1 **Monitor as a Services: Highly scalable event management platform in a cloud environment** 2011
Christina CF Chung, Rick TC Huang
IBM Regional Technical Exchange 2011

Organized Workshops

- o1 **Revisiting Patient-Clinician Interaction in 2022: Challenges from the Field and Opportunities for Future Research** 2021
Francisco Nunes, Nervo Verdezoto, Tariq Osman Andersen, Stina Matthiesen, Chia-Fang Chung, Sun Young Park, Woosuk Seo*, Paul Studenic
ECSCW 2022

Public-Facing Articles

- p8 **From “Vulnerable People” to “Vulnerable Resources” — Older Adults’ Social Support Realities During COVID-19** 2021
Novia Nurain*
Medium article based on J10
<https://medium.com/health-and-hci/from-vulnerable-people-to-vulnerable-resources-older-adults-social-support-realities-during-94bc856fef8d>
- p7 **Understanding Dining-out Experiences of People with Food Hypersensitivities** 2021
Christina Chung
Medium article based on C10
<https://medium.com/health-and-hci/understanding-dining-out-experiences-of-people-with-food-hypersensitivities-d714b85ae587>
- p6 **How to Design for Public HIV-related Stigma?** 2020
Juan Fernando Maestre*
Medium article based on J9
<https://medium.com/health-and-hci/how-to-design-for-public-hiv-related-stigma-63ba92130084>
- p5 **Designing to support the exchange of food and eating practices between remote, inter-generational family members** 2020
Aswati Panicker*
Medium article based on J7
<https://medium.com/health-and-hci/designing-to-support-the-exchange-of-food-and-eating-practices-between-remote-inter-generational-30925cc1e075>
- p4 **Designing food diaries to support collaboration between individuals and health experts** 2019
Christina Chung
Medium article based on J6

<https://medium.com/hci-design-at-uw/designing-food-diaries-to-support-collaboration-between-individuals-and-health-experts-350703038e5b>

- P3 Privacy Unraveling as a Threat to Disclosure Choice Around Sensitive Information in Online Social Environments** 2019
Mark Warner*
Medium article based on C9
<https://medium.com/acm-chi/privacy-unraveling-as-a-threat-to-disclosure-choice-around-sensitive-information-in-online-social-ae9585760cea>
- P2 Should you have a backup goal?** 2018
Christina Chung
Medium article based on J4
<https://medium.com/hci-design-at-uw/should-you-have-a-backup-goal-dcc82ffcd13>
- P1 Fitbits and Food Journals in the Doctor's Office** 2017
Christina Chung
Medium article based on C2 and J1
<https://medium.com/hci-design-at-uw/fitbits-and-food-journals-in-the-doctors-office-3b6c2cb006b1>

Selected Media Coverage

- M13 IU researchers examine games and grief**
Wes Mills. Inside Indiana Business. December 7 2022
<https://www.insideindianabusiness.com/articles/iu-researchers-examines-games-and-grief>
- M12 How Instagram Can Actually Help You Get Healthier—and Stay That Way**
Parade. January 23 2019
<https://parade.com/735205/parade/how-instagram-can-actually-help-you-get-healthier-and-stay-that-way/>
- M11 How the 'Instagram diet' works**
Lisa Drayer. CNN. 11 August 2017
<http://www.cnn.com/2017/08/11/health/instagram-diet-food-drayer/index.html>
- M10 Food photography a healthy habit for some**
Ted Land. King 5 TV. 3 May 2017.
<http://www.king5.com/news/local/food-photography-a-healthy-habit-for-some/436534037>
- M9 People Are Using Instagram as a Dieting Tool—And Maybe That's Not a Bad Thing**
Caroline Cunningham. The Washingtonian. 2 May 2017
<https://www.washingtonian.com/2017/05/02/people-are-using-instagram-as-a-dieting-tool-and-maybe-thats-not-a-bad-thing/>
- M8 Here's How Instagram Can Help You Eat Healthier**
Alisa Hrustic. Men's Health. 28 April 2017
<http://www.menshealth.com/nutrition/how-instagram-can-help-you-eat-healthier>
- M7 Instagram Food Photos Keep Dieters on Track**
Jessica Friger. Newsweek. 27 April 2017
<http://www.newsweek.com/food-diary-diet-instagram-social-media-591322>
- M6 Instagram may help users track food intake**
Amy Wallace. UPI. 26 April 2017
<http://www.upi.com/Instagram-may-help-users-track-food-intake/3741493225922/>

- M5 People turn to Instagram to eat healthier, UW study says**
 Madelaine VanDerHeyden. King 5. 27 April 2017.
<http://www.king5.com/news/health/instagram-foodies-have-healthier-diets-study-says/434311750>
- M4 UW study finds food in your Instagram feed helps some users track and maintain healthy habits**
 Kurt Schlosser. GeekWire. 26 April 2017
<http://www.geekwire.com/2017/uw-study-finds-food-instagram-feed-helps-users-track-maintain-healthy-habits/>
- M3 Could Posting Your Food Photos Help You Eat Healthier?**
 Jillian Kramer. Food & Wine. 27 April 2017
<http://www.foodandwine.com/news/could-posting-your-food-photos-help-you-eat-healthier>.
- M2 Bridging Expectations Between Doctors and Patients When It Comes To Digital Data**
 Jennifer Wing. KNKX News for Seattle and the Northwest, 14 March 2016
<http://knkx.org/post/bridging-expectations-between-doctors-and-patients-when-it-comes-digital-data>
- M1 UW paper addresses fitness app disconnect between providers and patients**
 Aly Brady. The Daily, 11 March 2016
http://www.dailyuw.com/news/article_dac52596-e743-11e5-a07d-9379d8ab7f7c.html

Invited Talks

	Designing Personal Informatics in the Social, Changing World	
T34	University of California Santa Cruz Computational Media Seminar	2023
T33	Guest Lecture, INFO490PI (Personal Health Informatics), University of Massachusetts Amherst	2023
T32	University of California Irvine Informatics Seminar Series	2022
	Designing for Shared Family Experience and Process	
T31	Guest Lecture, INFO I407/I507 (Health Informatics), Indiana University Bloomington	2022
T30	NYCU CSCW Research Summer Institute	2022
	Health & Communities	
T29	HCIC 2022 Panel	2022
	Early-Career Funding (CRII)	
T28	Midwest Big Data Hub Collaboration Café Webinar	2022
	Supporting Healthy Eating in the Changing, Social World	
T27	Indiana University Food Institute Seminar	2022
	Diversity and Multidisciplinary in UbiComp Research	
T26	TAICHI X UbiComp Panel	2022
	Personal Informatics in the Changing, Social World	
T25	University of Maryland Human-Computer Interaction Lab Brown Bag Lunch Speaker Series	2022
T24	University of Edinburgh Design Informatics Webinar	2022
T23	Georgia Tech GVU Center Brown Bag Speaker Series	2021
	Examining Food Experiences during Routine Disruption	
T22	Luddy Fellow Talk	2021
	Personal Tracking in Interpersonal Contexts	
T21	Guest Lecture, INFO I407/I507 (Health Informatics), Indiana University Bloomington	2021
T20	Guest Lecture, INFO I591 (Introduction to HCI/d), Indiana University Bloomington	2020
T19	Guest Lecture, INFO I407/I507 (Health Informatics), Indiana University Bloomington	2020
T18	HCI and Behavior Change Panel, HCI Summer Festival Newcastle University/Northumbria University/City University of London	2020
T17	University of California Davis Computer Science Colloquium	2020

T16	Indiana University Center of Excellence for Women & Technology Faculty and Ph.D. Salon	2020
	Identifying and Planning for Individualized Change: Patient- Provider Collaboration Using Lightweight Food Diaries	
T15	Indiana University Clinical and Translational Sciences Institute Retreat	2019
	Supporting Healthy Eating Using Food Photos	
T14	Guest Lecture, INFO I407/I507 (Health Informatics), Indiana University Bloomington	2019
T13	Indiana University Food Institute Seminar	2019
	Using Personal Informatics Data in Collaboration with People with Different Expertise	
T12	School of Computing, The University of Utah	2018
T11	Precision Health Initiative, School of Informatics, Computing, and Engineering, Indiana University Bloomington	2018
T10	Information Systems, University of Maryland, Baltimore County	2018
T9	Management Science, University of Waterloo	2018
T8	Computer Science, University of Illinois at Chicago	2018
	When Personal Tracking Becomes Social: Examining the Use of Instagram for Healthy Eating	
T7	Guest Lecture, HCDE 419 (Concepts in Human-Computer Interaction), University of Washington	2020
T6	Guest Lecture, INFO 407 (Health Informatics), Indiana University Bloomington	2019
T5	Guest Lecture, HCDE 419 (Concepts in Human-Computer Interaction), University of Washington	2018
	Guest Lecture, HS 204 (Communicating About Health: Current Issues and Perspectives), University of Washington	
T4	Guest Lecture, HS 204 (Communicating About Health: Current Issues and Perspectives), University of Washington	2018
T3		2017
	Video Interpretation Service Platform for Hearing-impaired People	
T2	IBM Academy of Technology 2010 Academy Collaboration Conference	2010
T1	The 6 th China Information Accessibility Forum, Beijing, China, November 2 nd 2009	2009

Teaching Experience

Instructor (University of California, Santa Cruz)

HCI 200: Introduction to HCI	Fall 2023
HCI 272: HCI Capstone 2	Fall 2023

Instructor (Indiana University)

INFO I300: Human-Computer Interaction Design and Programming	Spring 2023
INFO I400/I590: Cross-Platform Mobile Programming	Autumn 2022
ProHealth REU Site 2022: Design Principles and Elevator Pitch workshop	Summer 2022
INFO I300: Human-Computer Interaction Design and Programming	Spring 2022
INFO I400/I590: Cross-Platform Mobile Programming	Autumn 2021
ProHealth REU Site 2021: Poster and Presentation workshop	Summer 2022
INFO I609/I709: Advanced Seminar (Health Informatics: Personal Informatics and Beyond)	Spring 2021
INFO I400/I590: Cross-Platform Mobile Programming	Autumn 2020
Incorporated a Diplomacy Lab project with U.S. Consulate Ponta Delgada: Smartphone APP for U.S. History in the Azores	
INFO I609/I709: Advanced Seminar (Health Informatics: Personal Informatics and Beyond)	Spring 2020
INFO I400: Cross-Platform Mobile Programming	Autumn 2019
ProHealth REU Site 2019: Grad Admissions and Financing workshop	Summer 2019
INFO I609: Advanced Seminar (Health Informatics: Personal Informatics and Beyond)	Autumn 2018

Research Group Mentorship

IU ProHealth Summer REU: Identifying Food Texture with Vision Recognition (Hongtao (Brandon) Liu, Johns Hopkins University and Hamzah Ahmadi, California State University, East Bay)	Summer 2022
IU ProHealth Summer REU: Designing to Support the Exchange of Food and Eating Practices between Remote, Inter-generational Family Members (Colin LeFevre, Indiana University and Forum Modi, The College of New Jersey)	Summer 2021
IU ProHealth Summer REU: Understanding Communication of Remote, Intergenerational Families on Healthy Eating (Monika Worwa and Tahj Dosso, DePauw University)	Summer 2019
HCDE 496/596: Supporting Healthy Eating Data Generation & Sharing with Health Experts	2017
HCDE 496/596: Patient-Provider Sharing of Consumer Lifelogs	2015
HCDE 496/596: Technology Support for Health & Wellness (Goal Setting)	2013 - 2014
HCDE 496/596: Technology Support for Health & Wellness (Temperature Sharing to Support Remote Relationship)	2013

Individual Student Mentorship

Postdoc Mentorship

Weaslie Khoo (Indiana University; USDA Postdoc Fellowship; Co-mentored with David Crandall)	2021 - Current
Ada Ng (Northwestern University; CI Fellow Awarded Application/Forwent for an industry position)	2021

PhD Advisee

Yu-Ling (Ruby) Chou (UCSC Computational Media)	2023 - Current
Chun-Han Wang (UCSC Computational Media)	2021 - Current
Long-Jing Hsu (IU Informatics; Co-advised with Selma Sabanovic)	2020 - Current
Seung Wan Ha (UCSC Computational Media)	2020 - Current
Aswati Panicker (IU Informatics)	2019 - Current
Yuxing Wu (IU Informatics)	

PhD Committee

Zaidat Ibrahim (IU Informatics)	2021 - Current
Arash Zakeresfahani (IU Informatics)	2021 - Current
Laura Calloway (IU Informatics)	2021 - Current
Novia Nurain (IU Informatics)	2020 - 2023
Cassie Kresnye (IU Informatics)	2019 - 2022

Master's Student

Phoebe Martinez (IU Informatics)	2021 - 2022
Nikhil Denish (IU MHCI/D)	2021 - 2022
Ahmed Shahzad (IU Computer Science)	Spring 2022
Yashvi Upadhyaya (IU MHCI/D)	2021 - 2022
Chien-Chun Wu (IU MHCI/D)	2020 - 2021
Connie Tan (IU MHCI/D)	2020 - 2021
Aswati Panicker (IU MHCI/D, IU Informatics PhD student)	2019 - 2020
Kavya Basu (IU MHCI/D)	2019 - 2021
Penny Chang (IU MHCI/D)	2018 - 2021
Dong Yi (UW HCDE)	Fall 2015
Kaiyuan Xu (UW HCDE)	Spring & Fall 2015

Undergraduate Student

Hillary Hodum (IU Human Biology, CEWiT Emergent Scholars)	2022 - 2023
Meghana Mohankumar (IU Biochemistry, CEWiT Emergent Scholars)	2022 - 2023
Nur Aisyah Basay (IU Group Scholar STEM Mentoring Program)	Summer 2022
Ayre'ana Easler (IU Group Scholar STEM Mentoring Program)	Summer 2022
Brandon Liu (Johns Hopkins University, IU ProHealth REU Site)	Summer 2022
Hamzah Ahmadi (California State University East Bay)	Summer 2022
Isabela Salman (IU Nutrition Science, CEWiT Emergent Scholars)	2021 - 2022
Kelly Janek (IU Supply Chain and Operations, CEWiT Emergent Scholars)	2021 - 2022
Colin LeFevre (IU Informatics, IU ProHealth REU Site)	2021 - Current
Forum Modi (The College of New Jersey, IU ProHealth REU Site, currently IU PhD Student)	2021 - 2023
Tony Dattolo (IU Computer Science, 2nd prize in Cheng Wu Innovation Challenge)	2021 - 2022
Liza Dahiya (IIT Bombay)	Summer 2021
Joni Dalton (IU Informatics, CEWiT Emergent Scholars)	2020 - 2021
Jacie Little (IU Informatics, CEWiT Emergent Scholars)	2020 - 2021
Ellie Harrison (IU Anthropology, CEWiT Emergent Scholar)	2019 - 2021
Monika Worwa (DePauw University, IU ProHealth REU Site)	Summer 2019
Tahj Dosso (DePauw University, IU ProHealth REU Site)	Summer 2019
Qiaosi Wang (UW iSchool undergraduate student, currently Georgia Tech PhD student)	2017
Graduate Teaching Assistant, Human Centered Design & Engineering	
HCDE 310: Interactive System Design & Technology (Sean Munson)	Autumn 2017
HCDE 310: Interactive System Design & Technology (Sean Munson)	Autumn 2016
HCDE 310: Interactive System Design & Technology (Sean Munson)	Autumn 2014
HCDE 310: Interactive System Design & Technology (Sean Munson)	Autumn 2013
HCDE 310: Communication Design & Technology (Sean Munson)	Autumn 2012

Grants

External

G5	NSF Faculty Early Career Development Program (CAREER) Award Transforming Personal Informatics Systems to Support Routine Transitions in Healthy Eating Chia-Fang Chung (PI). \$605,063	2023
G4	NSF Computer and Information Science and Engineering (CISE) Research Initiation Initiative (CRII) Award Promoting Connectedness and Wellbeing through Healthful Eating Chia-Fang Chung (PI). \$190,989	2020

Internal

G3	Indiana University Luddy Faculty Fellowship 2020/2021 Examining Food Experiences during Routine Disruptions Chia-Fang Chung (PI). \$25,000	2020
G2	Indiana University Precision Health Initiative Gestational Diabetes Mellitus Team Pilot Project Award Supporting the development and evaluation of automated algorithms to identify eating behaviors from photos Chia-Fang Chung (PI) and David Crandall (Co-PI). \$9,950.	2019

G1 **Indiana University Precision Health Initiative Project Development Award** 2018
 Enhanced Dietary Analysis to Support the Understanding of Diverse Contributors to Gestational Diabetes Mellitus
 Chia-Fang Chung (PI). \$28,800

Prior Research Experience

University of Washington, Seattle 2012 - 2018

Graduate Research Assistant, Human Centered Design & Engineering 2013 - 2018

Supervisor: Sean Munson

Sharing lifelog data with healthcare providers and experts in clinical care (funded by AHRQ)

Adoption of blood pressure kiosks in clinical settings

TempFeel: Supporting remote relationships with temperature information sharing

Goal setting features in health and wellness applications

Graduate Research Assistant, Human Centered Design & Engineering 2012 - 2013

Supervisor: Keith Butler and Mark Haselkorn

Design and evaluate the evidenced-based method for health information technology (funded by AHRQ)

IBM T.J. Watson Research Center, Yorktown Heights, NY

Research Intern, Computational Health Behavior & Decision Science Autumn 2015

Supervisor: Catalina Danis

Integrating Population-based Patterns with Personal Routine to Re-engage Fitbit Use

IBM Research Collaboratory Taiwan 2009 - 2012

Care Coordination for Diabetes Management 2012

Supervisor: Sreeram Ramakrishnan and Henry Chang

Architected and designed in-market experiments and system architecture to facilitate chronic disease management inside and outside hospital and improve clinical outcome

Conducted user study, system flow/process analysis of 2 area hospitals (2000+ beds) and 1 clinic group (7 clinics and 3 supporting hospitals) as well as experiment design

Context-based Personal Wellness Management System 2010 - 2012

Supervisor: Raymund Lin and Sreeram Ramakrishnan

Architected and integrated 3-party coaching service, exercise prescription and monitoring system to provide context-based exercise guiding service.

Performed user centered system design and conducted In-market experiment.

Monitor as a Service: Highly scalable event processing service in the cloud 2010 - 2011

Supervisor: Liangzhao Zeng

Health Management Application Development and Deployment Framework 2009 - 2010

Supervisor: Liangzhao Zeng and Henry Chang

Professional Experience

University California, Santa Cruz

Assistant Professor, Computational Media, Baskin School of Engineering 2023 - Current

Indiana University Bloomington

Assistant Professor, Informatics, Luddy School of Informatics, Computing, and Engineering 2018 - 2023

IBM Greater China Developer Lab, Taipei, Taiwan

iConnect: Mobile Location-based Assistant for Deaf Community 2011 - 2012

Chief Architect, User Experience Researcher, and Team Leader (4 team members)

Architected, designed and implemented server platform and mobile app to facilitate task distribution among sign-language interpreters and to help deaf users locate interpreters nearby

This project won the IBM Centennial Grant Award for Community Service

Video Interpretation Service Platform for Hearing-impaired People	2009 - 2010
Chief Architect, Chief Programmer, and User Experience Researcher	
Architected, performed user centered design, and implemented an integrated platform on mobile devices to help deaf people communicate with others via interpretation service	
Established the first video interpretation center in Asia and supported Summer Deaflympics 2009, Taipei	
<i>Adopted by Taipei City Government and served deaf communities in Taiwan since 2009</i>	
Intelligent Receptionist: next generation smart banking teller system	2008
Chief Architect, Project Lead, and Chief Programmer	
Developed an integrated personal financial service system to promote service quality and sale	
<i>Deployed and in production in more than 200 branches of one major bank in Taiwan</i>	
IBM RFID Asset Management System	2006 - 2007
Chief Programmer	
Designed and implemented mobile asset management client, RFID reader agent, and database	
<i>Deployed and in production in IBM China Development Lab since 2007</i>	

Patents

Lifestyle progression models for use in preventative care	2012
Matthew Chen, Christina Chung, Rick Huang, June-Ray Lin, Ya-Fen Yeh, Xinxin Zhu	
United States Patent 20140188507	
Health Management Application Development and Deployment Framework	2010
Hung-Yang Chang, Chia-Fang Chung, Pei-Yun Sabrina Hsueh, Tsung-Chi Huang, Liangzhao Zeng	
United States Patent 20120046966A1	

Awards

DIS 2023 Best Work-in-Progress Award	2023
NSF CAREER Award (Transforming Personal Informatics Systems to Support Routine Transitions in Healthy Eating)	2023
CSCW 2021 Impact Recognition Award (J10)	2021
Indiana University Luddy Faculty Fellowship 2020/2021	2020
NSF CRII Award (Promoting Connectedness and Wellbeing through Healthful Eating)	2020
2020 Indiana University Trustees Teaching Award	2020
2018 Sage Assembly Young Investigator Award	2018
DIS 2018 Best Paper Honorable Mention (C7)	2018
Ubicomp/ISWC 2017 Doctoral Colloquium Travel Grant	2017
CHI 2017 Best Paper Honorable Mention (C6)	2017
Consortium for the Science of Sociotechnical System (CSST) 2016 Summer Institute Travel Grant	2016
CHI 2016 Workshop on Interactive Systems in Healthcare (WISH) Travel Grant	2016
CRA-W Graduate Cohort Travel Grant	2016
CSCW 2016 Best Paper Award (C2)	2016
Ubicomp/ISWC 2014 Broadening Participation Workshop Travel Grant	2014
2014 Shobe Prize Finalist	2014
IBM Team Award (Supporting iConnect project to win the IBM Centennial Grant)	2011
IBM First Patent Application Invention Achievement Award	2010
IBM Award of Distinction (Volunteering to Chinese Deaf Association and supporting the 21st Summer Deaflympics Taipei)	2009

Community Services

Technical Program Committee

Associate Chair. ACM CHI 2024. Health	2023
Associate Chair. ACM CHI 2023. Health	2022
Program Committee Member. TAICHI 2022	2022
Associate Chair. ACM CHI 2022. Interaction Beyond the Individual	2021
Associate Chair. ACM CSCW	2020 - 2021
Associate Chair. ACM CHI 2021. Health	2020
Associate Chair. Pervasive Health 2020	2020
Best Paper Committee. ACM CHI 2020	2019
Associate Chair. ACM CHI 2020. Health	2019
Program Committee Member. TAICHI 2019	2019
Associate Chair. ACM DIS 2019. Experience, Artifacts, and Technology	2019
Associate Chair. ACM CHI 2019. Interaction Beyond the Individual	2018

Grant Reviewing

Review Panelist. National Science Foundation	2021
Review Panelist. National Science Foundation	2019

Paper Reviewing

2014 - 2021

HCI publications

ACM CHI, TOCHI, CSCW, DIS, Ubicomp/IMWUT, C&C, Mobile HCI, HEALTH, Communications of ACM, NordiCHI, IJHCS, IJHCI, Frontiers in Big Data

Health Informatics publications

JAMIA, JMIR, JHIR, IJMEDI, EAI Pervasive Health

Other Conference and Community Volunteer

Doctoral Consortium Mentor, CSCW 2023	2023
Notes Chair, ECSCW 2023	2022 - 2023
Meta Chair. ACM CSCW 2022	2021 - 2022
Session Chair. ACM CSCW	2020
Faculty Mentor. SIGCHI CSCW Asia School	2020
Session Chair. ACM CHI	2018 - 2019
Student Coordinator. DUB Doctoral Consortium	2017
Student Coordinator. DUB Seminar	2016 - 2017
Student Mentor. UW Dream Project College Admission Workshop	2016
Student Mentor. Community Data Science Workshop	2014
Student Volunteer	
CSCW 2017 (Portland), CHI 2014 (Toronto), UbiComp 2014 (Seattle), SIGDOC 2012 (Seattle)	2012 - 2017

Internal Service (University of California, Santa Cruz)

HCIC UCSC Governing Board Member	2023 - Current
Undergraduate Committee	2023 - Current
Center for Computational Experience	2023 - Current
Merit Review (David Lee)	2023

Internal Service (Indiana University)

PhD Curriculum Committee	2022 - 2023
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2022 Luddy Pre-College Summer Program Faculty Curriculum Advisors	2022
Informatics HCI Program Director Search Committee	2021 – 2022
Informatics HCI Faculty Search Committee	2021 – 2022
Proactive Health Lab Director	2021 - Current
2021 Luddy Pre-College Summer Program Instructor (HCI + Health)	2020 – 2021
Informatics Executive Committee	2021
Faculty Judge. CEW&T Woman's Research Hackathon	2020
SICE PHI/AI Faculty Search Committee	2019 - 2020
SICE PHI/ML Faculty Search Committee	2018 - 2019
Informatics Colloquium Committee	2018 - Current
Industry Volunteer	
Co-Founder. Mobile technology Community in IBM China Development Lab, Taipei	2010 - 2011
Volunteer. Chinese Deaf Association and support Summer Deaflympics	2009
Volunteer. IBM Engineering Weeks	2007 - 2011
Mentor. IBM Summer Interns and Women in Technology Group	2006 - 2011