Chia-Fang (Christina) Chung

Assistant Professor
Informatics, Luddy School of Informatics, Computing, and Engineering
Indiana University Bloomington

Luddy Faculty Fellow 2020/2021
cfchung@iu.edu
http://cfchung.com

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
MBA, Information Management — 2004 - 2006
Thesis: Design and Implementation of a Stateful High Speed Intrusion Detection System
Advisor: Yeali Sunny Sun
BBA, Information Management — 2000 - 2004

Refereed Journal Articles

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
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

* Graduate student collaborators

+ Undergraduate student collaborators

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

C10 **Avoiding Reactions Outside the Home: Challenges, Strategies, and Opportunities to Enhance Dining Out Experiences of People with Food Hypersensitivities** 2021
Francisco Nunes, João Almeida*, Chia-Fang Chung, Nervo Verdezoto
CHI 2021 (Article 208), 16 pages.

C9 **Signal Appropriation of Explicit HIV Status Disclosure Fields in Sex-Social Apps used by Gay and Bisexual Men** 2019
Mark Warner*, Juan F. Maestre*, Jo Gibbs, Chia-Fang Chung, Ann Blandford
CHI 2019 (1-15), 15 pages. Acceptance rate: 23.8%

C8 **Opportunities for Oral Health Monitoring Technologies Beyond the Dental Clinic** 2018
Adele Parsons+, Chia-Fang Chung, Molly Donohue*, Sean Munson, Eric Seibel
Pervasive Health 2018 (327-335), 9 pages. Acceptance rate: 24%

C7 **Examining Self-Tracking by People with Migraine: Goals, Needs, and Opportunities in a Chronic Health Condition** 2018
Jessica Schroeder, Chia-Fang Chung, Daniel A. Epstein, Ravi Karkar, Adele Parsons, Natalia Murinova, James Fogarty, Sean A. Munson
DIS 2018 (135-148), 14 pages. Acceptance rate: 23% Best Paper Honorable Mention (Top 5%)

C6 **Finding the Right Fit: Understanding Health Tracking in Workplace Wellness Programs** 2017
Chia-Fang Chung, Nanna Gorm, Irina Shklovski, Sean A. Munson
CHI 2017 (4875-4886), 12 pages. Acceptance rate: 25% Best Paper Honorable Mention (Top 5%)

C5 **When Personal Tracking Becomes Social: Examining the Use of Instagram for Healthy Eating** 2017
Chia-Fang Chung, Elena Agapie, Jessica Schroeder, Sonali Mishra, James Fogarty, Sean A. Munson
CHI 2017 (1674-1687), 14 pages. Acceptance rate: 25%

C4 **Supporting Patient-Provider Collaboration to Identify Individual Triggers using Food and Symptom Journals** 2017
Jessica Schroeder, Jane Hoffswell, Chia-Fang Chung, James Fogarty, Sean Munson, Jasmine Zia
CSCW 2017. (1726-1739), 14 pages. Acceptance rate: 35%

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

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
CHI2020 Late Breaking Work

A8 **Supporting patient-provider communication and engagement with personal informatics data** 2017
Chia-Fang Chung
UbiComp/ISWC 2017 Doctoral Colloquium

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

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-dcc82fffcd13

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

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 Match 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
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 2020
Newcastle University/Northumbria University/City University of London
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

T4 Guest Lecture, HS 204 (Communicating About Health: Current Issues and Perspectives), University of Washington 2018

T3 Guest Lecture, HS 204 (Communicating About Health: Current Issues and Perspectives), University of Washington 2017

Video Interpretation Service Platform for Hearing-impaired People

T2 IBM Academy of Technology 2010 Academy Collaboration Conference 2010

T1 The 6th China Information Accessibility Forum, Beijing, China, November 2nd 2009 2009

Teaching Experience

Instructor

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

IFNO 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 Summer 2022
(Hongtao (Brandon) Liu, Johns Hopkins University and Hamzah Ahmadi, California State University, East Bay)

IU ProHealth Summer REU: Designing to Support the Exchange of Food and Eating Practices between Remote, Inter-generational Family Members Summer 2021
(Colin LeFevre, Indiana University and Forum Modi, The College of New Jersey)

IU ProHealth Summer REU: Understanding Communication of Remote, Intergenerational Families on Healthy Eating Summer 2019
(Monika Worwa and Tahj Dosso, DePauw University)

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

Informal Mentorship

Ada Ng (Northwestern University; CI Fellow Awarded Application/Forwent for an industry position) 2021

PhD Advisee

Chun-Han Wang (IU Informatics)	2021 - Current
Long-Jing Hsu (IU Informatics)	2021 - Current
Seung Wan Ha (IU Informatics)	2020 - Current
Aswati Panicker (IU Informatics)	2020 - Current
Yuxing Wu (IU Informatics)	2019 - Current

PhD Committee

Zaidat Ibrahim (IU Informatics)	2021 - Current
Britain Taylor (IU Intelligent System Engineering)	2021 - Current
Arash Zakeresfahani (IU Informatics)	2021 - 2022
Laura Calloway (IU Informatics)	2021 - Current
Novia Nurin (IU Informatics)	2020 - Current
Cassie Kresnye (IU Informatics)	2019 - Current

Master's Student

Phoebe Martinez (IU Informatics)	2021 - 2022
Nikhil Denish (IU MHCI/D)	2021 - Current
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 - Current
Meghana Mohankumar (IU Biochemistry, CEWiT Emergent Scholars)	2022 - Current
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, IU PhD Student)	2021 - Current
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)	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

G4 **NSF Computer and Information Science and Engineering (CISE) Research Initiation Initiative (CRII) Award** 2020

Promoting Connectedness and Wellbeing through Healthful Eating

Chia-Fang Chung (PI). $174,989

Internal

G3 **Indiana University Luddy Faculty Fellowship 2020/2021** 2020

Examining Food Experiences during Routine Disruptions

Chia-Fang Chung (PI). $25,000

G2 **Indiana University Precision Health Initiative Gestational Diabetes Mellitus Team Pilot Project Award** 2019

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.

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

Indiana University Bloomington
Assistant Professor, Informatics, Luddy School of Informatics, Computing, and Engineering 2018 - Current

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
Adopted by Taipei City Government and served deaf communities in Taiwan since 2009

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
Deployed and in production in more than 200 branches of one major bank in Taiwan

IBM RFID Asset Management System 2006 - 2007
Chief Programmer
Designed and implemented mobile asset management client, RFID reader agent, and database
Deployed and in production in IBM China Development Lab since 2007

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

CSCW 2021 Impact Recognition Award (J10) 2021
Indiana University Luddy Faculty Fellowship 2020/2021 2021
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 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

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

PhD Curriculum Committee 2022 - Current

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