

# PHOEBE K. CHUA

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## EDUCATION

University of California, Irvine, CA Expected June 2021  
**Ph.D. in Informatics (Human-Computer Interaction)**  
Advisor: Melissa Mazmanian

Messiah College, PA May 2016  
**B.A. (Hons) in Mathematics with Triple Minors in Computer Science, Statistics, and Music, GPA 4.0/4.0**  
University and Departmental Honors

University of Oxford, United Kingdom December 2015  
**Oxford Study Abroad Program, Operations Research and Econometrics, GPA 4.0/4.0**

## PROFESSIONAL AND RESEARCH EXPERIENCE

**Facebook Inc.** Menlo Park, CA Summer 2018  
Incoming User Experience Research Intern (with Auzita Irani)

**University of California, Irvine** Irvine, CA 2016 - Present  
Laboratory for Ubiquitous Computing and Interaction (LUCI)  
Social and Technological Action Research Group (STAR)  
Graduate Student Researcher, Department of Informatics (with Melissa Mazmanian and Gillian R. Hayes)  
Projects: *Social Media Use Among Students and Interns*; *EduBot: Sparking Online Discussions (with IBM Research)*; *Perceived Quality of Social Interactions among Parents and Teens*

**Tandemic**, Malaysia Summer 2016  
User Experience Research and Web Development Intern (with Kal Joffres, Chelsey LePage, and Martin Tan)  
Projects: *Asia Pacific Youth Innovation Challenge (with UNICEF)* and *SEAGULL 2016 (with the Singapore Management University)*

**The Collaboratory for Strategic Partnerships and Applied Research, Messiah College** Mechanicsburg, PA 2014-2015  
Group Lead, Education Group

Project Lead and Researcher 2013-2015  
Project: *Opportunities in Business and Educational Development*

User Experience Researcher June 2013  
Project: *Africa WASH and Disability Study (with World Vision)*

**Washington University in St. Louis** St. Louis, MO Summer 2015  
 Research Experiences for Undergraduates (REU) Program  
 Undergraduate Computer Science Researcher (with Brendan Juba and Sanmay Das)  
 Project: *Coordinated vs. Decentralized Exploration in Multi-Agent Multi-Armed Bandits*

**Pennsylvania State University** State College, PA Summer 2014  
 Research Experiences for Undergraduates (REU) Program  
 Undergraduate Mathematics Researcher (Viorel Nitica)  
 Project: *Classifying Intersections of Closed Conical Hemispaces*

#### HONORS AND AWARDS

**Grace Hopper Celebration (GHC) Student Scholarship**, Anita Borg Institute and ACM 2017  
**PyCon Travel Grant** 2017  
**CRA-W Grad Cohort Workshop Travel Grant** 2017  
**Chair's Award**, University of California, Irvine 2016  
**Baccalaureate Student Speaker Competition Winner**, Messiah College (awarded to three students) 2016  
**Departmental Honors**, Dept. of Mathematics, Physics, and Statistics, Messiah College (only recipient) 2016  
**Dr. Dorothy Gish Women in Leadership Award**, Messiah College 2015  
 for excellence in leadership (awarded to five out of 1650+ students in 70+ organizations)  
**SGA Professional Development Grant**, Messiah College 2015  
**International Service-Learning Grant**, Mulberry Foundation 2015  
**Sigma Zeta National Science and Honors Society** 2013 - 2016  
**World Vision Service-Learning Grant** 2013  
**Trustee's Scholarship for Excellence**, Messiah College (awarded to six students) 2012 - 2016  
 merit-based full-tuition scholarship  
**Overall Best Student in Arts Stream**, Methodist College Kuala Lumpur (only recipient) 2012  
 for performance in Further Mathematics, Mathematics, Physics, and Economics  
**Outstanding Academic Achievement Award**, Methodist College Kuala Lumpur 2012  
 for GCE A Level results: 4A\*/4A\* (**top 2% in the world**)  
**Best Student in Mathematics**, Methodist College Kuala Lumpur (only recipient) 2012  
**Best Student in Economics**, Methodist College Kuala Lumpur (only recipient) 2012  
**Special Scholarship**, Methodist College Kuala Lumpur 2010 – 2012

#### FULL CONFERENCE PUBLICATIONS (PEER-REVIEWED)

[C1] **Coordinated versus Decentralized Exploration in Multi-Agent Multi-Armed Bandits**  
 Mithun Chakraborty, Phoebe K. Chua, Sanmay Das, Brendan Juba  
*The International Joint Conference on Artificial Intelligence (IJCAI)*, February 2017  
 [acceptance rate: 26%]

## CONFERENCE PRESENTATIONS

- [CP2] **Communication Strategies for Spontaneous Teamwork**  
Phoebe K. Chua, Sanmay Das, Brendan Juba  
*School of Science, Engineering, and Health Symposium, Messiah College, April 2016*
- [CP1] **Classifying Intersections of Closed Conical Hemispaces**  
Phoebe K. Chua, Noah Kahrs, Yinuo Zhang, Viorel Nitica  
*Mathematical Association of America EPaDel Section Meeting, October 2014*

## POSTERS (LIGHTLY PEER-REVIEWED)

- [P2] **Empowering Zimbabwean Girls as Change Makers**  
Marlene Mhangami, Phoebe K. Chua  
*PyCon, May 2017*
- [P1] **Communication Strategies for Spontaneous Teamwork**  
Phoebe K. Chua, Sanmay Das, Brendan Juba  
*Research Symposium at Washington University in St. Louis, August 2015*

## TECHNICAL SYSTEM IMPLEMENTATIONS

- [T6] **DanceCraft** (Processing)  
Kate E. Ringland, Jamie K. Brown, Heather Faucett, Krithika Jaganath, Phoebe K. Chua, Kelly Ho  
Kinect dance therapy program to improve the spatial awareness of children with autism. 2016
- [T5] **Asia Pacific Youth Innovation Challenge Website** (HTML, CSS, and WordPress)  
Phoebe K. Chua, Myrra Baity  
Website for youth from across 18 Asia-Pacific countries to contribute ideas to promote children's rights. 2017.
- [T4] **3D Map** (HTML, CSS, JavaScript, and WebGL)  
Phoebe K. Chua, Chung Z-Ean  
Website with an interactive 3D campus map of Messiah College. 2016.
- [T3] **Block Blockers** (Processing)  
Phoebe K. Chua, Jeffrey Daub, Von Bock  
Physics game that teaches players the effects of gravity and friction on different sized blocks. 2015.
- [T2] **Adventures with Dr. Rohrbaugh** (Prolog)  
Daniel Baker, Phoebe K. Chua, Kyle Fischer  
Text-based adventure game implemented using natural language processing. 2015.
- [T1] **Winter Beater** (Python and Java)  
Phoebe K. Chua  
Interactive program that uses combinatorial optimization to determine the shortest route between buildings in Messiah College. 2014.

## TEACHING EXPERIENCE

**Graduate Teaching Assistant**, University of California, Irvine 2016 – Present  
Department of Informatics and the Department of Computer Science

- Conducted discussion sessions and graded for undergraduate and graduate courses on user research, usability testing, and information retrieval

**Undergraduate Teaching Assistant**, Messiah College 2012 – 2016  
Department of Mathematics, Statistics, and Physics and the Department of Business

- Conducted review sessions open to 670 students enrolled in any math and statistics courses
- Assisted faculty with instructing labs, creating supplemental course materials, and grading

### Guest Lectures

**Organizational Socialization.** Guest lecture for Informatics 162W Organizational Information Systems. University of California, Irvine. February 2018.

**Making, Analyzing, and Testing Usable Interfaces.** Guest lecture for Informatics 133, User Interaction Software. University of California, Irvine. November 2017.

**Analysis and Testing of Interfaces.** Guest lecture for Informatics 133, User Interaction Software. University of California, Irvine. November 2016.

## MENTORING

### Selected Positions

DECADE PLUS Leadership Coach, University of California, Irvine Summer 2017  
Graduate InterConnect Peer Mentor, University of California, Irvine Summer 2017  
Summer Research Program Graduate Student Mentor, University of California, Irvine Summer 2017  
Competitive Edge Research Program Peer Mentor, University of California, Irvine Summer 2017  
International Student Programs Peer Advisor, Messiah College 2013 – 2015

### Training

DECADE PLUS Leadership Coach Training Program, University of California, Irvine Summer 2017  
DECADE Mentoring Excellence Program, University of California, Irvine Fall 2016

### Graduate Mentoring

Minnie Wu, Ph.D. Informatics, Competitive Edge Summer Research Program Summer 2017

### Undergraduate Mentoring

Juan Rosales, B.S. Mechanical Engineering, University of California, Irvine 2016 - Present  
Lydia Wan, B.S. Economics, Messiah College 2014 – 2016  
Jessica Sponsler, B.S. Business Administration, Messiah College 2014 – 2015  
Rahel Schlogl, B.A. Mathematics, Messiah College 2013 – 2015  
Elizabeth Barnes, B.S. Biopsychology, Messiah College 2013 – 2015

## SERVICE

- Secretary**, DECADE Engineering and ICS Student Council, University of California, Irvine 2016 – Present
- Organize events and outreach activities to support women and underrepresented minorities receiving doctoral degrees at UC Irvine
- Treasurer**, Multicultural Council; International Students Association, Messiah College 2013 – 2016
- Supervised five multicultural organizations to promote diversity and inclusion
  - Managed an annual budget of \$30,000
  - Organized the International Banquet, the largest student-run event, for 400+ people
- Assistant Advisor**, Games Competition, Malaysian Care, Malaysia 2011
- Organized educational games competitions for 200+ Burmese refugee children and youth, involving more than 80 volunteers from various clubs and universities as well as funding from the United Nations High Commissioner for Refugees (UNHCR), the U.S. Embassy, and Hasbro

## MEMBERSHIPS

- Association for Computing Machinery (ACM) 2017 – Present
- Python Software Foundation 2017 – Present
- Women in Information and Computer Science at the University of California, Irvine 2016 – Present