

HELENA M. MENTIS

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EDUCATION

Ph.D. 2010 Pennsylvania State University, Information Sciences and Technology
M.S. 2004 Cornell University, Communication; Cognitive Science Minor
B.S. 2000 Virginia Polytechnic Institute and State University, Psychology

Leadership Development

2020 Chair's Conflict Resolution Workshop, UMBC
2019 HERS Institute, Bryn Mawr College (Higher Education Leadership Development Program)
2019 Conflict Resolution Workshop, UMBC

ACADEMIC APPOINTMENTS

2021-2022 Fulbright U.S. Scholar, Department of Computer Science, University of Copenhagen, Denmark
2013-current University of Maryland, Baltimore County (UMBC)
2021-current Professor, Department of Information Systems
2019-current Affiliate Professor, Department of Computer Science and Electrical Engineering
2018-2021 Associate Dean for Academic Programs and Learning, College of Engineering and IT
2018-2021 Associate Professor, Department of Information Systems
2013-2018 Assistant Professor, Department of Information Systems
2012-2013 Harvard Medical School, Research Fellow, Department of Surgery & Cambridge Health Alliance, Research Coordinator
2010-2012 Corpus Christi College, University of Cambridge, UK, Computer Science, Fellow
2009-2010 Swedish Institute of Computer Science, Sweden, ERCIM Postdoctoral Fellow
2007-2009 Penn State, College of Information Sciences and Technology, Graduate Research Assistant
2001-2003 Cornell University, Department of Communication, Graduate Teaching Assistant

INDUSTRY EXPERIENCE

2010-2012 Microsoft Research Cambridge, UK, Postdoctoral Researcher
2003-2009 Lockheed Martin, Maritime Systems and Sensors, Senior Systems Engineer
2000-2001 Philips Research, the Netherlands, Researcher

HONORS/AWARDS

2021 Fulbright U.S. Scholar
2021 CHI Best Paper Award
2017 CSCW Best Paper Honorable Mention
2016 CSCW Best Paper Honorable Mention
2013 CHI Best Paper Honorable Mention
2010 FAS Marie Curie International Postdoctoral Fellowship (declined)
2010 NSF Computing Innovation Fellowship (declined)
2009 European Research Consortium for Informatics and Mathematics (ERCIM) Fellowship
2003 Cornell University Cognitive Studies Summer Research Fellowship

GRANTS

External (\$2,393,773)

FW-HTF-P: Telemedicine at Scale: Expanding the Healthcare Workforce and Healthcare Access
PI: **Helena Mentis**; co PIs: Andrea Kleinsmith, Anita Komlodi, Christine Yee (economics)
2020–2021, NCE 2022 \$149,899, National Science Foundation (NSF), BCS-2026510

A Peer-led Team Learning Framework for Ethics in Computing

PI: **Helena Mentis**; co PIs: Anupam Joshi (CSEE), Carolyn Seaman, Maria Sanchez (ECEP)

2019–2020, NCE 2021 \$149,980, Mozilla Foundation

2020–2021, NCE 2022 \$64,800, Mozilla Foundation

CHS: SMALL: Stress Reflection Systems in Medical Team Training

PI: Andrea Kleinsmith; co PIs: **Helena Mentis**, Jenifer Jenkins-Levy (EHS)

2018–2021 \$369,643, National Science Foundation (NSF), IIS-1815854

2019 \$7,000, REU Supplemental

SaTC: CORE: Small: Negotiating Cyber Systems Access for Older Adults with Mild Neurocognitive Disorder

PI: **Helena Mentis**; co PIs: Galina Madjaroff (Aging), Peter Rabins (Aging)

2017–2020, NCE 2022 \$499,587, National Science Foundation (NSF), CNS-1714514

2021 \$16,000, REU Supplemental

II-New: Flexible User Interaction Instrumentation for Ubiquitous and Immersive Computing Environments

PI: Wayne Lutters; co PIs: Andrea Kleinsmith, Anita Komlodi, Ravi Kuber, **Helena Mentis**

2017–2018 \$356,657, National Science Foundation (NSF), CNS-1730033

CAREER: Collaborative Image Manipulation and Annotation in Surgical Telemedicine

PI: **Helena Mentis**

2016–2021, NCE 2022 \$518,121, National Science Foundation (NSF), IIS-1552837

Sep-Dec 2017 \$14,230, CLB Supplemental, IIS-1745794

2021 \$16,000, REU Supplemental, IIS-1552837

CHS: Small: Gestural Image Annotation Systems in Coordinated Surgical Practice

PI: **Helena Mentis**

2014–2017, NCE 2019 \$296,506, National Science Foundation (NSF), IIS-1422671

2017 \$14,000, REU Supplemental, IIS-1742641

WORKSHOP: Computer Supported Cooperative Work 2015 Doctoral Research Colloquium

PI: **Helena Mentis**

2014–2015 \$21,350, National Science Foundation (NSF), IIS-1506889

Internal (\$56,386)*Identifying an Interdisciplinary Path to Social Responsibility Education across the COEIT Curriculum*

PI: **Helena Mentis**; coPIs: Maria Sanchez (ECEP), Christine Mallinson (CSSS), Felipe Filomeno (PSGS),

Woodrow W. Winchester (ECEP)

2021–2022, NCE 2023 \$22,000.00, UMBC Hrabowski Innovation Fund: Implementation and Research Grant

Revitalizing the COEIT User Studies Labs

PI: Wayne Lutters; co PIs: Stacy Branham, Amy Hurst, Andrea Kleinsmith, Anita Komlodi, Ravi Kuber, **Helena Mentis**

2016–2017 \$29,886.00, UMBC CoEIT Strategic Plan Implementation Grant Program

Proposal to Join the Human-Computer Interaction Consortium (HCIC)

PI: Amy Hurst; co PIs: Andrea Kleinsmith, Anita Komlodi, Ravi Kuber, Wayne Lutters, **Helena Mentis**

2016–2017 \$5,000, UMBC CoEIT Strategic Plan Implementation Grant Program

Comparing Movement Sensors

PI: **Helena Mentis**

2014–2016 \$1,500, UMBC Undergraduate Research Assistantship Support (URAS)

Assessing the Validity of Vision-Based Body Tracking for Gait Analysis

PI: **Helena Mentis**

2014–2016 \$20,000, UMBC Special Research Assistantship/Initiative Support (SRAIS)

ADVISING/MENTORING

Postdoctoral Researchers

Ignacio Avellino, January 2020-December 2020, Chargé de Recherche, Sorbonne-Université
Nora McDonald, September 2019-August 2021, Assistant Professor, University of Cincinnati

Ph.D. Students

Committee Chair - Graduated

William Easley, Human-Centered Computing, December 2020, Human Factors Design Engineer, Apple
Yuanyuan Feng, Information Systems, May 2020, Senior UX Researcher, Providence Health - Digital Innovation Group
Galina Madjaroff, Human-Centered Computing, December 2018, Senior Lecturer and Faculty Director, BS in Information Science at Shady Grove, University of Maryland

Committee Chair - In Progress

Yi Xuan Khoo, Human-Centered Computing, 2nd year
Jwawon Seo, Human-Centered Computing, post comps, proposal expected Spring 2022
Adegboyega Akinsiku, Human-Centered Computing, proposed September 2021, defense expected August 2022
Azin Semsar, Human-Centered Computing, proposed October 2020, defense expected Spring 2022

Committee Member

Elishiah Miller, Computer Science, UMBC, proposed September 2018
Leah Kulp, Information Studies, Drexel University, August 2020, UX Research Intern, Google
Erin Buehler, Human-Centered Computing, UMBC, May 2018, Senior User Experience Researcher, Central Accessibility team, Google
Patrick Carrington, Human-Centered Computing, UMBC, August 2017, Assistant Professor, Human Computer Interaction Institute, Carnegie Mellon University
Kelley Gurley, Human-Centered Computing, UMBC, May 2016, Head of PDT IT Strategy and Ops, Takeda
Michele Williams, Human-Centered Computing, UMBC, December 2015, Owner, M.A.W. Consulting, LLC - Making Accessibility Work
Alyson Young, Human-Centered Computing, UMBC, August 2015, Research Manager at Adelphi Values

External Examiner

Elena Márquez Segura, Informatics and Media, Uppsala University, Sweden, defended June 2016

Research Mentor

Hye-Kyung Bae, Independent Study, Spring 2017
Judith Uchidiuno, Independent Study, Spring 2015
Uchenna Uchidiuno, Independent Study and Graduate Research Assistant, Fall 2014-Spring 2015
Kyle Althoff, Independent Study and Graduate Research Assistant, Spring 2015-Fall 2017
Christopher Wong, Independent Study and Graduate Research Assistant, Fall 2014-Spring 2017
Christopher Isgrig, Independent Study and Graduate Research Assistant, Spring 2014-Spring 2016
Rita Shewbridge, Independent Study and Graduate Research Assistant, Fall 2014-Spring 2017

Masters Students

Thesis Chair

Zoya Trendafilova, Human Centered Computing, graduated December 2018

Research Mentor

Bhushan Sontakke, Independent Study and Graduate Research Assistant, Spring 2017
Ganesh Pradhan, Independent Study and Graduate Research Assistant, Spring 2017
Dan Neeley, Independent Study, Fall 2015
Uchenna Uchidiuno, Graduate Research Assistant, Fall 2013-Summer 2014
Maria Priyanka Sabastian, Graduate Research Assistant, Fall 2013-Spring 2014
Zachary Seidel, Independent Study Spring 2014
Eric Jay Corbett, Independent Study Fall 2013-Spring 2014

Undergraduate Students

Scholar Mentor

Tobi Majekodunmi, Louis Stokes Alliance for Minority Participation (LSAMP), Fall 2020-current, mentor
 Frances Watson, Undergraduate Research Award (URA) Scholar, LSAMP Scholar, Fall 2019-current, mentor
 Miral Ahmad, Louis Stokes Alliance for Minority Participation (LSAMP), Summer 2020, mentor
 Justin Reed, MARC U*STAR Scholar, Fall 2018-Spring 2019, mentor
 Yasmin Graham, MARC U*STAR Scholar, Fall 2017-Spring 2019, mentor
 Zachary Holtzman, Interdisciplinary Studies Major, Fall 2016-Fall 2018, committee member
 Jordan Ramsey, MARC U*STAR Scholar, Fall 2015-Fall 2017, mentor

CRA-W DREU Mentor

Esthi Erickson, Summer 2020 (virtual), CS at University of Minnesota
 Katie Li, Summer 2017, CS at Pomona College
 Jacqueline Mun, Summer 2017, CS at Vassar College
 Veeha Khanna, Summer 2015, CS at NC State University
 Courtney Pharr, Summer 2014, CS at Clark University

Research Mentor

Sazhelle Gutierrez-Moulton, Summer 2021, Computer Science
 Andrew Barlow, Summer 2021, Computer Science
 Allison Battisti, Fall 2019-current, Information Systems
 Johnlemuel Casilag, Summer 2019-Fall 2019, Computer Science
 Miguel Arana, Summer 2019-Fall 2019, Information Systems
 Alseny Bah, Spring 2019, Information Systems, Cybersecurity Final Project (Graduated 2019)
 Mbarick Traore, Spring 2019, Information Systems, Cybersecurity Final Project (Graduated 2019)
 Hannah McGowan, Summer 2017-Spring 2019, Biology and Psychology (Graduated 2019)
 Jordan Ramsey, Fall 2014-Spring 2018, Computer Engineering (Graduated 2018)
 Meredith Evans, Summer 2015-Fall 2015, Information Systems (Graduated 2015)
 Praveen Bachoti, Summer 2014, Information Systems (Graduated 2016)

PUBLICATIONS, PRESENTATIONS, AND CREATIVE ACHIEVEMENTS

It is the convention in my field for the primary author's name to appear first. If the authors contributed equally, then names are listed in alphabetical order. For joint work with a student, my standard practice is to list the student's name(s) first if they significantly contributed to the paper – graduate student mentees are notated with an asterisk (*) in the list below and undergraduate students with a hash symbol (#). I often include my medical collaborators on my papers although they often do not significantly contribute to the writing of the papers – medical collaborators are notated with a dagger (†) in the list below.

Peer-Reviewed Works

Journal Articles

- J26 McDonald, N., *Akinsiku, A., *Hunter-Cevera, J., *Khoo, Y., Berczynski, M., Kephart, K., Sanchez, M., **Mentis, H.** (accepted). Responsible Computing: A Longitudinal Study of A Peer-led Ethics Learning Framework. *ACM Transactions on Computing Education (TOCE)*, *x(x)*, xx-xx.
- J25 *Semsar, A., †Ton, J., #Maharroof, N., Avellino, I., †Zahiri, HR, †Guckes, F, **Mentis, H.** (2021), Effect of Training the Mentor on Quality of Instruction and Trainees' Performance in Laparoscopic Oophorectomy Telementoring. *Journal of Minimally Invasive Gynecology*, *28(11)*, S60-61.
- J24 McDonald, N. & **Mentis, H.** (2021). 'Citizens Too': Safety Setting Collaboration among Older Adults with Memory Concerns. *ACM Transactions on Computer-Human Interaction (TOCHI)*, *28(5)*, 1-32.
- J23 *Feng, Y., *Uchidiuno, U.A., †Zahiri, H.R., †George, I., †Park, A.E., & **Mentis, H.** (2021). Comparison of Kinect and Leap Motion for Intraoperative Image Interaction. *Surgical Innovation*, *28(1)*, 33-40.
- J22 **Mentis, H.M.**, Madjaroff, G., Massey, A., & *Trendafilova, Z. (2020). The Illusion of Choice in Discussing Cybersecurity Safeguards Between Older Adults with Mild Cognitive Impairment and Their Caregivers. *Proceedings of the ACM on Human Computer Interaction (PACM: HCI)*, *4*, CSCW2, p.1-19.

- J21 *Semsar, A., *McGowan, H., *Feng, Y., †Zahiri, H.R., †Park, A., Kleinsmith, A., & **Mentis, H.M.** (2020). Quality of and Attention to Instructions in Telementoring. *Proceedings of the ACM on Human Computer Interaction (PACM: HCI)*, 4, CSCW2, p.1-21.
- J20 *Miller, E., Li, Z., **Mentis, H.**, †Park, A., Zhu, T., & Banerjee, N. (2020). RadSense: Enabling one hand and no hands interaction for sterile manipulation of medical images using Doppler radar. *Smart Health*, 15, p. 100089, Elsevier.
- J19 *Feng, Y., #McGowan, H., *Semsar, A., †Zahiri, H.R., †George, I.M., †Park, A., Kleinsmith, A., & **Mentis, H.** (2020). Virtual pointer for gaze guidance in laparoscopic surgery. *Surgical Endoscopy*, 34, p.3533–3539.
- J18 *Semsar, A., #McGowan, H., *Feng, Y., †Zahiri, H.R., †Park, A., Kleinsmith, A., & **Mentis, H.** (2019). How Trainees Use the Information from Telepointers in Remote Instruction. *Proceedings of the ACM on Human Computer Interaction (PACM: HCI)*, 3, CSCW, p.1-20.
- J17 *Feng, Y., #McGowan, H., *Semsar, A., †Zahiri, H. R., †George, I. M., †Turner, T., †Park, A., Kleinsmith, A. & **Mentis, H. M.** (2018). A virtual pointer to support the adoption of professional vision in laparoscopic training. *International Journal of Computer Assisted Radiology and Surgery*, 13(9), 1463–1472.
- J16 **Mentis, H.M.** (2017). Collocated Use of Imaging Systems in Coordinated Surgical Practice. *Proceedings of the ACM: Human-Computer Interaction (PACM: HCI)*, 1, CSCW, article 78, 1-18. **Best Paper Honorable Mention**
- J15 *Wong, C.K., **Mentis, H.M.**, Kuber, R. (2017). The bit doesn't fit: Evaluation of a commercial activity-tracker at slower walking speeds. *Gait & Posture*, 59, 177-181.
- J14 *Feng, Y., *Wong, C.K., Janeja, V., Kuber, R., **Mentis, H.M.** (2017). Comparison of tri-axial accelerometers step-count accuracy in slow walking conditions. *Gait & Posture*, 53, 11-16.
- J13 *O'Kane, A. A., *Park, S. Y., **Mentis, H.**, Blandford, A., & Chen, Y. (2016). Turning to Peers: Integrating Understanding of the Self, the Condition, and Others' Experiences in Making Sense of Complex Chronic Conditions. *Computer Supported Cooperative Work (CSCW)*, 25(6), 477-501.
- J12 Chellali, A., **Mentis, H.**, Miller, A., Ahn, W., Arikatla, V. S., Sankaranarayanan, G., De, S., †Schwaitzberg, S., & Cao, C. G. (2016). Achieving interface and environment fidelity in the Virtual Basic Laparoscopic Surgical Trainer. *International Journal of Human-Computer Studies*, 96, 22-37.
- J11 *Feng, Y., *Wong, C., †Park, A., & **Mentis, H.** (2016). Taxonomy of instructions given to residents in laparoscopic cholecystectomy. *Surgical endoscopy*, 30(3), 1073-1077.
- J10 **Mentis, H.M.**, *Shewbridge, R., †Powell, S., †Armstrong, M., †Fishman, P., & †Shulman, L. (2016). Co-Interpreting Movement with Sensors: Assessing Parkinson's Patients' Deep Brain Stimulation Programming. *Human-Computer Interaction*, 31(3-4), 227-260.
- J09 **Mentis, H.M.**, Chellali, A., †Manser, K., Cao, C.G.L., & †Schwaitzberg, S.D. (2016). A systematic review of the effect of distraction on surgeon performance: Directions for operating room policy and surgical training. *Surgical Endoscopy*, 30(5), 1713-1724.
- J08 Morrison, C., Culmer, P., **Mentis, H.**, & Pincus, T. (2016). Vision-based body tracking: turning Kinect into a clinical tool. *Disability and Rehabilitation: Assistive Technology*, 11(6), 516-520.
- J07 Blandford, A., Berndt, E., Catchpole, K., Furniss, D., Mayer, A., **Mentis, H.**, O'Kane, A., Owen, T., Rajkomar, A., & Randell, R. (2015). Strategies for conducting situated studies of technology use in hospitals. *Cognition Technology & Work*, 17(4), 489-502.
- J06 **Mentis, H.**, Laaksolahti, J., & Höök, K. (2014). My Self and You: Tension in Bodily Sharing of Experience. *ACM Transactions on Computer-Human Interaction (TOCHI)*, 21(4), article 20.
- J05 O'Hara, K., Gonzalez, G., †Carrell, T., Sellen, A., †Penney, G., **Mentis, H.**, Criminisi, A., Corish, R., Rouncefield, M., †Dastur, N., & †Varnavas, A. (2014). Interactional Order and Constructed Ways of Seeing with Touchless Imaging Systems in Surgery. *Computer Supported Cooperative Work (CSCW)*, 23(3), pp.299-337.

- J04 O'Hara, K., Gonzalez, G., Sellen, A., †Penney, G., †Varnavas, A., **Mentis, H.**, Criminisi, A., Corish, R., Rouncefield, M., †Dastur, N., & †Carrell, T. (2014, January). Touchless interaction in surgery. *Communications of the ACM (CACM)*, 57(1), 70-77.
- J03 O'Hara, K., Harper, R., **Mentis, H.M.**, Sellen, A., & Taylor, A. (2013). On the naturalness of touchless: Putting the “interaction” back into NUI. *ACM Transactions on Computer-Human Interaction (TOCHI)*, 20(1), article 5.
- J02 **Mentis, H.M.**, Reddy, M., & Rosson, M.B. (2013). Concealment of emotion in an emergency room: Expanding design for emotion awareness. *Computer Supported Cooperative Work (CSCW)*, 22(1), pp.33-63.
- J01 Convertino, G., **Mentis, H.M.**, Slavkovic, A., Rosson, M.B., & Carroll, J.M (2011). Supporting knowledge sharing and activity awareness in distributed emergency management planning: A design research project. *ACM Transactions on Computer-Human Interaction (TOCHI)*, 18(4), pp.22:1-22:34.

Highly Selective Conference Papers

The top conferences in Human-Computer Interaction (HCI) are highly selective Association for Computing Machinery (ACM) conferences intended for archival papers. These conferences exceed many HCI journals in their selectivity, visibility, and impact with typical acceptance rates ranging from 20% to 30%. For a study of the impact of ACM conference proceedings, see Conference Paper Selectivity and Impact: <http://dl.acm.org/citation.cfm?id=1743546.1743569>. In the following, I have sub-grouped these proceedings as “Highly Selective Conference Papers” and indicated acceptance rates when they were made publicly available.

- C34 *Easley, W.B., *Asgarali-Hoffman, S. N., Hurst, A., **Mentis, H. M.**, & Hamidi, F. (2021). Using a Participatory Toolkit to Elicit Youth’s Workplace Privacy Perspectives. *Proceedings of the European Symposium on Usable Security 2021* (pp. 211-222).
- C33 *Akinkiku, A., Avellino, I., *Graham, Y., & **Mentis, H.M.** (2021). It's Not the Movement: Experiential Information Needed in Stroke Telerehabilitation. *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, Yokohama, Japan, (p. 1-12), New York: ACM. (26.3% acceptance rate.)
- C32 McDonald, N. & **Mentis, H.M.** (2021). Building for ‘We’: Safety Settings for Couples with Memory Concerns. *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, Yokohama, Japan, (p. 1-11), New York: ACM. **Best Paper Award** (26.3% acceptance rate.)
- C31 McDonald, N., Larsen, A., #Battisti, A., Madjaroff, G., Massey, A., & **Mentis, H.** (2020). Realizing Choice: Online Safeguards for Couples Adapting to Cognitive Challenges. *Proceedings of the USENIX Symposium on Usable Privacy and Security (SOUPS)*, (p. 99-110).
- C30 **Mentis, H.M.**, *Feng, Y., *Semsar, A., & †Ponsky, T.A. (2020). Remotely Shaping the View in Surgical Telementoring. *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, Honolulu, Hawa’ii, USA (p. 1-14), New York: ACM. (24.3% acceptance rate.)
- C29 *Semsar, A., #McGowan, H., *Feng, Y., †Zahiri, H.R., †George, I., †Turner, T., †Park, A., **Mentis, H.**, & Kleinsmith, A. (2019). Effects of a virtual pointer on trainees’ cognitive load and communication efficiency in surgical training. In *AMIA Annual Symposium Proceedings* (Vol, 2019, p. 1197-1206). American Medical Informatics Association.
- C28 *Feng, Y., *Chhikara, J., *Ramsey, J., & **Mentis, H.** (2019). Perceived usefulness and acceptance of communication support system in laparoscopic surgery. In *AMIA Annual Symposium Proceedings* (Vol, 2019, p. 1031–1040). American Medical Informatics Association.
- C27 **Mentis, H.M.**, Madjaroff, G., & Massey, A. (2019). Upside and Downside Risk in Online Security for Older Adults with Mild Cognitive Impairment. *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, Glasgow, Scotland, (paper 611), New York: ACM.
- C26 *Feng, Y., #Li, K., *Semsar, A., #McGowan, H., #Mun, J., †Zahiri, HR., †George, I., †Park, A., Kleinsmith, A., & **Mentis, H.** (2019). Communication Cost of Single-user Gesturing Tool in Laparoscopic Surgical Training. *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, Glasgow, Scotland, (paper 343), New York: ACM. (23.8% acceptance rate.)

- C25 *Feng, Y. & **Mentis, H.M.** (2017). Improving Common Ground Development in the Surgical Training through Talk and Action. In *AMIA Annual Symposium Proceedings* (Vol. 2017, p. 696). American Medical Informatics Association.
- C24 *Madjaroff, G. & **Mentis, H.M.** (2017). Narratives of Older Adults with Mild Cognitive Impairment and Their Caregivers. *Proceedings of the ACM SIGACCESS conference on Computers and accessibility (ASSETS)*, Baltimore, MD (pp. 140-149), New York: ACM. (26.2% acceptance rate.)
- C23 **Mentis, H.M.**, Komlodi, A., †Schrader, K., †Phipps, M., †Gruber-Baldini, A., †Yarbrough, K., & †Shulman, L. (2017). Crafting a view of self-tracking data in the clinical visit. *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, Denver, Colorado, (pp. 5800-5812), New York: ACM. (25% acceptance rate.)
- C22 *Feng, Y. & **Mentis, H.** (2016). Supporting Common Ground Development in the Operation Room through Information Display Systems. In *AMIA Annual Symposium Proceedings* (Vol. 2016, p. 1774-1783). American Medical Informatics Association.
- C21 **Mentis, H.M.**, #Rahim, A., & †Theodore, P. (2016). Crafting the Image in Surgical Telemedicine. *Proceedings of the ACM SIGCHI conference on Computer Supported Cooperative Work & Social Computing (CSCW)*, (25% acceptance rate.) **Best Paper Honorable Mention**
- C20 *Carrington, P., #Chang, K., **Mentis, H.**, & Hurst, A. (2015). “But, I don’t take steps”: Examining the Inaccessibility of Fitness Trackers for Wheelchair Athletes. *Proceedings of the ACM SIGACCESS conference on Computers and accessibility (ASSETS)*, Lisbon, Portugal (pp. 193-201), New York:ACM. (23% acceptance rate.)
- C19 **Mentis, H.**, *Shewbridge, R., †Powell, S., †Fishman, P., & †Shulman, L. (2015). Being seen: Co-Interpreting Parkinson’s Patient’s Movement Ability in Deep Brain Stimulation Programming. *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, Seoul, South Korea (pp. 511-520), New York:ACM. (23% acceptance rate.)
- C18 **Mentis, H.**, Chellali, A., & †Schwartzberg, S. (2014). Learning to See the Body: Supporting Instructional Practices in Laparoscopic Surgical Procedures. *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, Toronto, ON, Canada (pp. 2113-2122), New York:ACM. (23% acceptance rate.)
- C17 **Mentis, H.M.** & Taylor, A. (2013). Imaging the body: Embodied vision in minimally invasive surgery. *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, Paris, France (pp. 1479-1488), New York: ACM. (20% acceptance rate.) **Best Paper Honorable Mention**
- C16 **Mentis, H.M.** & *Johansson, C. (2013). Seeing movement qualities. *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, Paris, France (pp. 3375-3384), New York: ACM. (20% acceptance rate.)
- C15 *Vongsathorn, L., O’Hara, K., & **Mentis, H.M.** (2013). Bodily interaction in the dark. *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, Paris, France (pp. 1275-1278), New York: ACM. (20% acceptance rate.)
- C14 Harper, R. & **Mentis, H.M.** (2013). The mocking gaze: The social organization of Kinect use. *Proceedings of the ACM SIGCHI Conference on Computer Supported Cooperative Work (CSCW)*, San Antonio, Texas (pp. 167-180), New York: ACM. (35.6% acceptance rate.)
- C13 O’Kane, A., **Mentis, H.M.**, & Thereska, E. (2013). Non-static nature of patient consent: Shifting privacy perspectives in health information sharing. *Proceedings of the ACM SIGCHI Conference on Computer Supported Cooperative Work (CSCW)*, San Antonio, Texas (pp. 553-562), New York: ACM. (35.6% acceptance rate.)
- C12 **Mentis, H.M.**, O’Hara, K., Sellen, A., & †Trevedi, R. (2012). Interaction proxemics and image use in neurosurgery. *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, Austin, Texas (pp. 927-936), New York: ACM. (23% acceptance rate.)

- C11 *Fothergill, J., **Mentis, H.M.**, Nowozin, S., & Kohli, P. (2012). Instructing people for training gestural interactive systems. *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, Austin, Texas (pp. 1737-1746), New York: ACM. (23% acceptance rate.)
- C10 **Mentis, H.M.**, Lindley, S., Dunphy, P., Taylor, S., Regan, T., & Harper, R. (2012). Taking as an act of sharing. *Proceedings of the ACM SIGCHI Conference on Computer Supported Cooperative Work (CSCW)*, Seattle, Washington, (pp. 1091-1100), New York: ACM. (39.5% acceptance rate.)
- C09 **Mentis, H.M.**, Reddy, M.C., & Rosson, M.B. (2010). Invisible emotion: Information and interaction in an emergency room. *Proceedings of the ACM SIGCHI Conference on Computer Supported Cooperative Work (CSCW)*, Savannah, Georgia, (pp. 311-320), New York: ACM. (20% acceptance rate.)
- C08 **Mentis, H.M.**, Hoffman, B., Bach, P., Rosson, M.B., & Carroll, J.M. (2009). Development of decision rationale in complex group decision making. *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, Boston, Massachusetts. (pp. 1341-1350), New York: ACM. (25% acceptance rate.)
- C07 Convertino, G., **Mentis, H.M.**, Rosson, M.B., Slavkovic, A., & Carroll, J.M. (2009). Supporting content and process common ground in computer-supported teamwork. *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, Boston, Massachusetts, (pp. 2339-2348), New York: ACM. (25% acceptance rate.)
- C06 Convertino, G., **Mentis, H.M.**, Bhambare, P., #Ferro, C., Carroll, J. M., & Rosson, M.B. (2008). Comparing media in emergency planning. *Proceedings of the International Conference on Information Systems for Crisis Response and Management (ISCRAM)*, Washington, DC, (pp. 632-641).
- C05 Convertino, G., **Mentis, H. M.**, Rosson, M.B., Carroll, J.M., Slavkovic, A., & Ganoë, C. (2008). Articulating common ground in cooperative work: Content and process. *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, Florence, Italy. (pp. 1637-1646), New York: ACM. (22% acceptance rate.)
- C04 Convertino, G., **Mentis, H.M.**, Carroll, J.M., & Rosson, M.B. (2007). How does common ground increase? *Proceedings of the ACM SIGCHI Conference on Supporting Groupwork (GROUP)*, Sanibel Island, Florida, (pp. 225-228), New York: ACM. (29% acceptance rate.)
- C03 Carroll, J.M., **Mentis, H.M.**, Convertino, G., Rosson, M.B., Ganoë, C.H., Sinha, H., & Zhao, D. (2007). Prototyping collaborative geospatial emergency planning. *Proceedings of the 4th International Conference on Information Systems for Crisis Response and Management (ISCRAM)*, Delft, the Netherlands, (pp. 105-113).
- C02 Foucault, B., **Mentis, H.M.**, Sengers, P., & Welles, D. (2007). Provoking sociability. *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, San Jose, Ca., (pp. 1557-1560), New York: ACM. (25% acceptance rate.)
- C01 **Mentis, H. M.** & Gay, G. K. (2002). Using TouchPad pressure to detect negative affect. *Proceedings of the IEEE International Conference on Multimodal Interfaces (ICMI)*, Pittsburgh, Pa, (pp. 406-410). (35% acceptance rate.)

Conference Abstracts and Other Conference Papers (Refereed)

- A24 *Misal, V., *Surely, A., *Taherzadeh, S., #McGowan, H., †Williams, G., †Jenkins, JL, **Mentis, H.**, Kleinsmith, A. (2020). Exploring Links Between Physiologic Synchrony, Stress and Communication of Paramedic Trainees During In-Situ Emergency Response Training. *In Companion Publication of the 2020 International Conference on Multimodal Interaction (pp. 82-86).*
- A23 †Sanford, Z., †Turner, R., †George, I., †Addo, A., **Mentis, H.**, †Zahiri, R., †Weltz, A.D., & †Park, A. (2019). A novel use of multi-perspective two-dimensional versus single perspective two-dimensional view in laparoscopy. *Proceedings of the Society for American Gastrointestinal Endoscopic Surgeons 2019 Annual Meeting.*
- A22 #McGowan, H., *Feng, Y., *Semsar, A., †Zahiri, H., †Park, A., Kleinsmith, A., & **Mentis, H.** (2019). Virtual pointer as a telementoring guidance aid for laparoscopic surgical training. *Proceedings of the Society for American Gastrointestinal Endoscopic Surgeons 2019 Annual Meeting.*

- A21 #McGowan, H., *Semsar, A., *Feng, Y., †Zahiri, H., †Park, A., Kleinsmith, A., & **Mentis, H.** (2019). Virtual pointer for clarity of instruction in telementoring. *Proceedings of the Society for American Gastrointestinal Endoscopic Surgeons 2019 Annual Meeting.*
- A20 *Feng, Y., #McGowan, H., *Semsar, A., †Zahiri, H.R., †George, I.M., †Turner, T., †Park, A., Kleinsmith, A., & **Mentis, H.M.** (2018). Virtual pointer for gaze guidance in laparoscopic surgery. *Proceedings of the Society for American Gastrointestinal Endoscopic Surgeons 2018 Annual Meeting.*
- A19 *Feng, Y., #Li, K., †George, I., †Zahiri, H., & **Mentis, H.** (2018). Improving trainees' self-assessment through gaze guidance. *Proceedings of the Society for American Gastrointestinal Endoscopic Surgeons 2018 Annual Meeting.*
- A18 **Mentis, H.M.**, *Wong, C., *Feng, Y., #Ramsey, J., & #Evans, M. (2016). Laparoscopic telestration for intraoperative resident training. *Proceedings of the Society for American Gastrointestinal Endoscopic Surgeons 2016 Annual Meeting.*
- A17 *Madjaroff, G., **Mentis, H.**, & Ronch, J. (2016). Differences in Perceived Impact of Person-Centered Technology on Older Adults' Quality of Life. *Extended Abstracts of the Conference on Human Factors in Computing Systems (CHI)*, San Jose, CA, (pp. 2200-2208). New York:ACM.
- A16 *Feng, Y., †Zahiri, H., & **Mentis, H.M.** (2015). Challenges for Residents in Following Instruction in Laparoscopic Surgery. *Presented at the American Medical Informatics Association (AMIA) Annual Symposium.*
- A15 *Uchidiuno, U., *Feng, Y., †Zahiri, H., †George, I., †Park, A., & **Mentis, H.** (2015). Efficiency and Accuracy of Kinect and Leap Motion Devices Compared to the Mouse for Intraoperative Image Manipulation. *Presented at the American Medical Informatics Association (AMIA) Annual Symposium.*
- A14 **Mentis, H.M.**, O'Hara, K., Gonzalez, G., Sellen, A., Corish, R., Criminisi, A., †Trivedi, R., & †Theodore, P. (April, 2015). Voice or Gesture in the Operating Room. *Extended Abstracts of the Conference on Human Factors in Computing Systems (CHI)*, Seoul, South Korea, (pp. 773-780), New York: ACM.
- A13 †Rahim, A.A., †Theodore, P.R., & **Mentis, H.M.** (2015). Operating room telemedicine: A study of Google Glass in transplant surgery. *Proceedings of the Society for American Gastrointestinal Endoscopic Surgeons 2015 Annual Meeting.*
- A12 *Feng, Y., *Wong, C., **Mentis, H.M.**, & †Park, A. (2015). Taxonomy of instructions given to residents in laparoscopic cholecystectomy. *Proceedings of the Society for American Gastrointestinal Endoscopic Surgeons 2015 Annual Meeting.*
- A11 **Mentis, H.M.**, †Rahim, A., & †Theodore, P.R. (2015). Referencing CT scans through a headmounted optical display during laparoscopic surgery. *Proceedings of the Society for American Gastrointestinal Endoscopic Surgeons 2015 Annual Meeting.*
- A10 *Wong, C., *Feng, Y., **Mentis, H.M.**, Chellali, A., †Zahiri, H., & †Park, A. (2015). Using Hierarchical Task Analysis to Incorporate Decision-Making Into Simulation-Based Laparoscopic Training. *Human Factors and Ergonomics in Health Care.*
- A09 O'Kane, A. & **Mentis, H.M.** (2012). Sharing medical data vs. health knowledge in chronic illness care. *Extended Abstracts of the Conference on Human Factors in Computing Systems (CHI)*, Austin, TX, (pp. 2417-2422), New York: ACM.
- A08 **Mentis, H.M.** & Rosson, M.B (2009). "It's like a circus in here!" Affect and information sharing in an emergency department. *Extended Abstracts of the Conference on Human Factors in Computing Systems (CHI)*, Boston, MA, (pp. 4423-4428), New York: ACM.
- A07 Hoeft, R.M. & **Mentis, H.M.** (2009). Beyond user-centered design: Applicable concepts from complementary approaches. In The Human Factors and Ergonomics Society (Ed.), *Proceedings of the 53rd Annual Meeting of the Human Factors and Ergonomics Society*, San Antonio, Texas, (pp. 1844-1848). Santa Monica, CA: The Human Factors and Ergonomics Society.
- A06 **Mentis, H. M.** & Hoeft, R. M. (2009). Where are we? One company's collective interpretation of HSI in the SE process. *Proceedings of the 2009 Human Systems Integration Symposium*, Annapolis, MD.

- A05 Hoeft, R. M. & **Mentis, H. M.** (2009). The next generation warfighters = the net generation: Implications for the development and implementation of training technologies. *Proceedings of the 2009 Human Systems Integration Symposium*, Annapolis, Md.
- A04 Convertino, G., **Mentis, H.**, Ting, A., Ferro, C., Carroll, J. M. (2007). Measuring common ground in geo-collaboration. *Proceedings of the 12th International Conference on Human-Computer Interaction (HCII)*, Beijing, China, New York: Springer.
- A03 Devlin, R. C. & **Mentis, H. M.** (2005). Advanced tracking and correlation algorithms: Applying GOTS algorithms in COTS systems. *Proceedings of the Conference on Working Together: R&D Partnerships in Homeland Security*, Boston, Ma.
- A02 Lacava, D. & **Mentis, H. M.** (2005). Beginning design without a user: Application of scenario-based design. *Proceedings of the 11th International Conference on Human-Computer Interaction (HCII)*, Las Vegas, NV.
- A01 **Mentis, H.M.** & Gay, G.K. (April, 2003). User recalled occurrences of usability errors: Implications on the user experience. *Extended Abstracts of the Conference on Human Factors in Computing Systems (CHI)*, Ft. Lauderdale, Fl. (pp. 736-737), New York: ACM.

Non Peer-Reviewed Works

Books

- B02 Furniss, D., O’Kane, A., Randell, R., Taneva, S., **Mentis, H.**, Blandford, A. (2015). *Fieldwork for healthcare: Guidance for investigating human factors in computer systems*. Synthesis Lectures on Assistive, Rehabilitative, and Health-Preserving Technologies. San Rafael, CA: Morgan & Claypool Publishers.
- B01 Furniss, D., O’Kane, A., Randell, R., Taneva, S., **Mentis, H.**, Blandford, A. (2014). *Fieldwork for healthcare: Case studies investigating human factors in computing systems*. Synthesis Lectures on Assistive, Rehabilitative, and Health-Preserving Technologies. San Rafael, CA: Morgan & Claypool Publishers.

Book Chapters

- BC05 **Mentis, H.**, Taneva, S., Blandford, A., Furniss, D., Ratwani, R., & Randell, R. (2015). Impact in fieldwork for healthcare: Understanding impact on researchers, research, practice and beyond. In D. Furniss et al. (Eds.), *Fieldwork for Healthcare: Guidance for investigating human factors in computer systems* (p.89-106). San Rafael, CA: Morgan & Claypool Publishers.
- BC04 Furniss, D., Randell, R., Taneva, S., **Mentis, H.**, Wolstenholme, D., Dearden, A., O’Kane, A., & Blandford, A. (2015). Ethics, governance and patient & public involvement in healthcare. In D. Furniss et al. (Eds.), *Fieldwork for Healthcare: Guidance for investigating human factors in computer systems* (p.1-22). San Rafael, CA: Morgan & Claypool Publishers.
- BC03 Carroll, J., Rosson, M.B., Ganoë, C.H., Borge, M., Burge, J.D., Farooq, U., Convertino, G., Bach, P.M., **Mentis, H.**, & Jiang, H. (2009). Activity awareness and complex teamwork. In K.E. Carettas (Ed.), *Outsourcing, Teamwork and Business Management* (pp. 47-72). Hauppauge, NY: Nova Science Publishers, Inc.
- BC02 **Mentis, H. M.** (2007). Memory of frustrating experiences. In D. Nahl & D. Bilal (Eds.), *Information and Emotion* (pp. 197-210). Medford, NJ: Information Today.
- BC01 Carroll, J. M. & **Mentis, H. M.** (2007). The useful interface experience: The role and transformation of usability. In H. N. J. Schifferstein & P. Hekkert (Eds.), *Product Experience* (pp. 499-514). San Diego, CA: Elsevier.

Organized Workshops

- OW7 Anslow, C., **Mentis, H.**, Jorge, J., Billingham, M. (accepted). XR for Healthcare and Wellbeing. *IEEE VR 2022 Workshop*.

- OW6 Toombs, A., Devendorf, L., Shih, P., Kaziunas, E., Nemer, D., **Mentis, H.**, & Forlano, L. (2018). Sociotechnical Systems of Care. *In Companion of the 2018 ACM Conference on Computer Supported Cooperative Work and Social Computing* (pp. 479-485).
- OW5 Furniss, D., O’Kane, A. A., Randell, R., Taneva, S., **Mentis, H.**, & Blandford, A. (2013). HCI fieldwork in healthcare: creating a graduate guidebook. *In CHI’13 Extended Abstracts on Human Factors in Computing Systems* (pp. 3203-3206).
- OW4 **Mentis, H.M.**, Reynolds, R., Levy, K., Introne, J., Steinfeld, C., & Forte, A. (2012). Championing the impact of socio-technical research. *In Proceedings of the iConference*, Toronto, Canada.
- OW3 Forte, A., Goggins, S. P., Sawyer, S., Rotman, D., Twidale, M., Sims, C., Shankar, K., Butler, B.S., Panciera, K., & **Mentis, H.M.** (2011). Socio-technical research: Connecting disciplines in the iSchools. *In Proceedings of the iConference*, Seattle, Wa.
- OW2 Peters, M., **Mentis, H.**, Haynes, S., Saab, D., & Durrant, A. (2007). Exploring design as a research activity. *In Extended Abstracts of the Conference on Human Factors in Computing Systems*, San Jose, Ca., (pp. 2861-2864), New York:ACM.
- OW1 Hoffman, B., **Mentis, H.**, Peters, M., Saab, D., Schweitzer, S., & Spielvogel, J. (2006). Exploring design as a research activity. *In Proceedings of the 5th ACM conference on Designing Interactive Systems*, University Park, Pa., (pp. 365-366), New York: ACM.

Workshop Position Papers

- W9 *Feng, Y., *Wong, C., & **Mentis, H.M.** (2014). Direction-giving to Residents in Laparoscopic Surgery. Presented at the AMIA Workshop on Interactive Systems in Healthcare (WISH). [Refereed]
- W8 *Shewbridge, R., **Mentis, H.M.**, *Pharr, C., †Powell, S., †Fishman, P., †Armstrong, M., & †Shulman, L. (2014). Getting in Sync: Health and Digital Literacy in Patient Deep Brain Stimulation Device Use. Presented at the AMIA Workshop on Interactive Systems in Healthcare (WISH). [Refereed]
- W7 **Mentis, H.** (2012). Pushing the Boundaries of Intraoperative Image Use. Presented at the AMIA 2012 Workshop on Interactive Systems in Healthcare (WISH). [Refereed]
- W6 O’Kane, A.A. & **Mentis, H.M.** (2012). Sharing Health Information in the Care of Diabetes. Presented at the CHI 2012 Workshop on Bridging Clinical and Non-Clinical Health Practice: Opportunities and Challenges.
- W5 **Mentis, H.** (2010). Complementing informatization: Engaging socio-affective practices in healthcare information technology. Presented at the CHI 2010 Workshop on Interactive Systems in Healthcare (WISH). [Refereed]
- W4 **Mentis, H.** (2010). Affective healthcare experiences. Presented at the CSCW 2010 Workshop on CSCW Research in Healthcare: Past, Present, and Future.
- W3 Cramer, H., **Mentis, H.**, Fernaeus, Y. (2010). Playful experiences. Presented at the CSCW 2010 Workshop on Fun, seriously?
- W2 **Mentis, H.** (2008). Ethnographic methods for studying emotions in group contexts. Presented at the CHI 2008 Workshop on Measuring Affect in HCI: Going Beyond the Individual.
- W1 **Mentis, H. M.** (2005). Insight into strong emotional experiences through memory. Presented at the CHI 2005 Workshop on Evaluating Affective Interfaces.

Panel and Special Interest Group Participation

- P4 **Mentis, H.M.**, Mandryk, R., Grossman, T., Lampe, C., & Colnago, J. (2020, April). CHI 2030: The Future is Wide Open. *In Extended Abstracts of the 2020 CHI Conference on Human Factors in Computing Systems Extended Abstracts* (pp. 1-3).
- P3 Singh, A., Newhouse, N., Gibbs, J., Blandford, A. E., Chen, Y., Briggs, P., **Mentis, H.**, Sellen, K.M., & Bardram, J.E. (2017, May). HCI and health: Learning from interdisciplinary interactions. *In Proceedings of the 2017 CHI Conference Extended Abstracts on Human Factors in Computing Systems* (pp. 1322-1325).

- P2 **Mentis, H.M.**, Höök, K., Mueller, F., Isbister, K., Khut, G. P., & Robertson, T. (2014). Designing for the experiential body. In *CHI'14 Extended Abstracts on Human Factors in Computing Systems* (pp. 1069-1074).
- P1 **Mentis, H.M.**, Thimbleby, H., Kientz, J.A., Hayes, G.R., & Reddy, M. (May, 2011). Interactive technologies for health special interest group. *Extended Abstracts of the Conference on Human Factors in Computing Systems (CHI)*, Vancouver, Canada, (pp. 519-522), New York: ACM.

Patents

- Pa1 **Mentis, H.** (2019). *Annotation of endoscopic video using gesture and voice commands*. U.S. Patent No. 10,169,535. Washington, DC: U.S. Patent and Trademark Office. Patent filed January 19, 2016, Issued, January 01, 2019.

Other Journal and Magazine Participation

- OJ5 **Mentis, H.**, Mandryk, R., Druin, A., Kun, A., & Bardzell, S. (2020). Supporting accessibility at SIGCHI conferences. *interactions*, 27(3), 68-69.
- OJ4 **Mentis, H.M.** (2020). The changing face (s) of the SIGCHI executive committee. *interactions*, 27(1), 92-93.
- OJ3 **Mentis, H.**, & Perry, M. (2019). I am, you are, we are SIGCHI. *interactions*, 26(5), 89-89.
- OJ2 **Mentis, H.**, Lampe, C., Bernhaupt, R., Joshi, A., Fussell, S., Dray, S., Olsen, D., Quigley, A., Williamson, J.R., Sari, E., Terveen, L., Druin, A., & Palanque, P. (2018). The new SIGCHI EC's values and strategic initiatives. *interactions*, 26(1), 84-85.
- OJ1 Terveen, L., **Mentis, H.**, Quigley, A., & Palanque, P. (2018). The evolution of SIGCHI conferences and the future of CHI. *interactions*, 25(5), 84-85.

Invited Talks

- IT28 "The Future of Work – A Conversation with the Four Program Chairs of CHIWORK 2021-2022," Symposium on Human-Computer Interaction for Work (CHIWork), October 7, 2021.
- IT27 "Crafting the Image in Surgery," Symposium on Human Factors Interventions in Surgical Systems, June 17, 2021.
- IT26 "The Future of Telemedicine Work," Future of Work Conversations, February 11, 2021.
- IT25 "Crafting the Image in Surgery," University of California San Diego Design Lab Studio Session, February 7, 2017.
- IT24 "Crafting the Image in Surgery," Uppsala University Seminar, June 9, 2016.
- IT23 "Bringing the Kinect to the Operating Room," USC Beaufort Student Research & Scholarship Day, April 18, 2016.
- IT22 "Co-Interpreting Movement with Sensors: Assessing Parkinson's Patients' Deep Brain Stimulation Programming," University of Washington Biomedical and Health Informatics Lecture Series, February 26, 2016.
- IT21 "Crafting the Image in Surgical Telemedicine," University of Washington DUB Seminar, February 24, 2016.
- IT20 "Surgical Practices in Referencing Images in Collaboration and Instruction," Imaging and Interaction in Medical Practice, February 28, 2015.
- IT19 "Person-Centered Technologies for Healthy and Connected Aging," Invited Talk for ProAging, October 10, 2014.
- IT18 "Interpreting Kinect and Google Glass for Surgical Practice," Invited Talk for GE Global Research, July 15, 2014.
- IT17 "Seeing Movement Ability: Commercial Technologies for Supporting Clinical Assessment and Patient Empowerment," Invited Talk for Claude D. Pepper Center Research Series, University of Pittsburgh, March 17, 2014.

- IT16 “Tracking the Body in Healthcare,” Invited Talk for University of Maryland Human Computer Interaction Lab, January 30, 2014.
- IT15 “Embracing Methodological Challenges in Clinical Systems Fieldwork,” Panel for Workshop on Interactive Systems in Healthcare, November 16, 2013.
- IT14 “Monitoring Progressive Disease Health Behavior in the Home for Palliative Care,” Invited Talk for MSR Body Tracking in Healthcare, November 12, 2013.
- IT13 “Seeing the Body: Issues in Automated Sensing of Movement Disorders,” Invited Panel for Wireless Health, November 3, 2013.
- IT12 “Realizing Touchless Interaction in the Operating Theatre,” Invited Talk for Cambridge Wireless User Experience SIG, New Forms of Interaction – Don’t Touch!, July 12, 2012.
- IT11 “Realizing Touchless Interaction in the Operating Theatre,” Invited Talk for Microsoft Research Cambridge PhD Summer School, July 03, 2012.
- IT10 “Interacting without Touch,” Invited Talk for the Faculty of Politics, Psychology, Sociology and International Studies, University of Cambridge, May 25, 2012.
- IT9 “Third Wave HCI and Gestural Interaction,” Invited Talk for the Computer Laboratory, Cambridge University, Cambridge, UK, February 2011.
- IT8 “Third Wave HCI and the Body,” Invited Talk for The Gerard Duveen Social Sciences Society, Corpus Christi College, Cambridge University, Cambridge, UK, February 2011.
- IT7 “Tensions in Designing for the Expression of Emotion,” Invited Talk for Microsoft Research Cambridge, Cambridge, UK, June 2010.
- IT6 “The Challenges of Invisible Emotions,” Invited Talk for Aarhus University Computer Science Department, Aarhus, Denmark, March 2010.
- IT5 “Invisible emotion: Information and interaction in an emergency room,” Guest Lecturer in undergraduate level CSCW course in the Department of Information and Media Studies at Aarhus University, Aarhus, Denmark, March 2010.
- IT4 “Seriously Emotional: Designing for Emotion in the Workplace,” Guest Lecturer in graduate level Affective Interactions course in the Department of Computer Science at Stockholm University, Kista, Sweden, April 2010.
- IT3 “Invisible Emotions: Designing for Critical Information,” Invited Talk for the Mobile Life Centre at the Swedish Institute of Computer Science, Kista, Sweden, May 2009.
- IT2 “Expanding Usability: Experience, Emotions, and Fun,” Guest Lecturer in undergraduate level Usability Engineering course in the College of Information Sciences and Technology at The Pennsylvania State University, University Park, Pa, USA, February 2008.
- IT1 “HCI in the Workplace,” Invited Talk for Cornell SIGCHI Distinguished Lectureship Series, Ithaca, NY, USA, February 2004.

Media Coverage and Interviews

- M23 Dansberger Duque, C.S. (2021, October). After COVID halted global travel, UMBC’s newest Fulbright Scholars begin their journeys. UMBC News.
- M22 UMBC News Staff (2021, March). UMBC rapidly expands live online peer tutoring to include computing fields. UMBC News.
- M21 Hanks, M. (2020, December). UMBC’s newest computing grads, from bachelor’s to Ph.D., share stories of connection, support, opportunity. UMBC News.
- M20 Hanks, M. (2020, October). As demand for telemedicine swells, UMBC researchers develop strategies to scale-up services. UMBC News.
- M19 Hansen, S., (2020, July). UMBC faculty on a mission to prepare robust, high-quality online classes for fall semester. UMBC News.

- M18 Harrison, S. (2020, May). How Accurate Is Your Commercial Fitness Tracker? The Markup.
- M17 Hanks, M. (2020, February). Wearable sensors and infrared cameras: Introducing UMBC's User Studies Lab. UMBC News.
- M16 Hanks, M. (2020, January). UMBC researchers work to support first responders through NSF-funded stress-response technology
- M15 Hanks, M. (2019, December). UMBC students confront ethical challenges through new computing curriculum. UMBC News.
- M14 Danley-Greiner, K. (2019, November). Innovative surgical training tool tested at Anne Arundel Medical. Patch.com, Health and Fitness.
- M13 Rosenfeld, S. (2019, November). Video communication tech could help train surgeons. Inside Digital Health.
- M12 Hanks, M. (2017, June). Helena Mentis examines how activity trackers can inform treatment plans for patients with Parkinson's disease. UMBC News
- M11 Hanks, M. (2017, April). First-ever Grand Challenge Symposium focuses on value of interdisciplinary collaboration. UMBC News.
- M10 Hanks, M. (2016, February). Helena Mentis receives NSF CAREER Award for advancements in surgical telemedicine. UMBC News.
- M9 Macleod, J. S. (2014, August). A boomer's guide to 65. Baltimore Magazine.
- M8 Knight, M. (2012, August 16). Xbox Kinect hacks set innovation in motion. CNN Tech, Edge of Discovery.
- M7 Brimelow, A. (2012, May 31). Trial of "touchless" gaming technology in surgery. BBC News, Health.
- M6 Brimelow, A. (2012, May 31). Touchless technology put to test by surgeons. BBC News. [TV]
- M5 Campbell, M. (2012, May 17). Kinect imaging lets surgeons keep their focus. New Scientist, Tech.
- M4 Tu, J.I. (2012, March 7). Microsoft's TechFest Trots Out 'What is Now Possible' for Computers. The Seattle Times, Business/Technology.
- M3 Clapaud, A. (2012, March 7). Microsoft Installe Kinect Dans les Salles D'operation. 01net. [French]
- M2 Salman. (2012, March 6). Microsoft Shows Off Kinect-Based Projects at TechFest Research Fair. The Tech Journal.
- M1 Foley, M-J. (2012, March 6). Microsoft showcases new Kinect-centric projects at its TechFest Research Fair. ZDNet.

TEACHING

University of Maryland, Baltimore County, Department of Information Systems, TT Professor

Undergraduate Classes

- F2020 Telemedicine (IS 464) – new class, cross-listed
- F2016 Fundamentals of Human-Computer Interaction (IS 303)
- S2015 Fundamentals of Human-Computer Interaction (IS 303) – restructured class
- S2014 Fundamentals of Human-Computer Interaction (IS 303)

Graduate Classes

- S2021 Computer Supported Cooperative Work (HCC 727)
- F2020 Telemedicine (IS664) – new class, cross-listed
- S2019 Computer Supported Cooperative Work (HCC 727)
- S2017 Computer Supported Cooperative Work (HCC 727)
- S2018 Fundamentals of Human-Centered Computing (HCC 629) – transitioned to online format
- S2016 Fundamentals of Human-Centered Computing (HCC 629)
- S2015 Computer Supported Cooperative Work (HCC 727) – restructured class

F2014 Human-Computer Interaction (HCC 760)
 F2013 Human-Computer Interaction (HCC 760) – restructured class

University of Cambridge, Department of Social and Developmental Psychology, Instructor

2012 New Technology, MPhil colloquium

The Pennsylvania State University, Information Sciences and Technology, Teaching Assistant

2006 Introduction to Information Sciences and Technology, Freshman Course
 2005 Introduction to Information Sciences and Technology, Freshman Course

Cornell University, Department of Communication, Teaching Assistant

2003 Discourse for Usability, Senior Course
 2003 Impact of Information Technology, Graduate Course
 2002 Psychology of Television and Beyond, Senior Course
 2002 Computer-Mediated Communication, Senior Course
 2001 Human-Computer Interaction, Senior Course

SERVICE TO THE DEPARTMENT, COLLEGE, UNIVERSITY, AND PROFESSION

Service to the Department

2014-present Academic advising for IS and HCC Master's students
 2017-2018 IS Department Research Committee, member
 2016-2017 IS Department Assessment Committee, member
 2015-2016 IS Department HCC Graduate Program Committee, member
 2015-present Interactive Systems Research Center (ISRC) Committee, member
 2014-2015 IS Department Search Committee, member

Service to the College

2019-2021 COEIT Graduate Programs Committee, ex officio member
 2019-2021 COEIT Undergraduate Programs Committee, ex officio member
 2019-2021 COEIT First Year Experience Committee, ex officio member
 2019-2021 COEIT Diversity & Inclusion Committee, member

Service to the University

2020-2021 Applied Learning Exception Emergency Team (ALEET), member
 2020-2020 UMBC Incident Management Team – Academic Affairs, member
 2018-2021 Student Administration Academic Advisory Committee (SAAAC), member
 2019-2021 Campus Climate Coordinating Group, member
 2017-2019 Blackboard Faculty Advisory Group, UMBC Division of Information Technology, member

Service to the Profession

ACM - Association for Computing Machinery

2021-present ACM Committee on Disclosure of Findings

ACM SIGCHI - Association for Computing Machinery's Special Interest Group on Computer-Human Interaction

2020-present CARES Committee member, ACM SIGCHI
 2021-present Executive Committee Past President, ACM SIGCHI
 2018-2021 Executive Committee President, ACM SIGCHI
 2015-2018 Executive Committee Executive Vice President, (ACM SIGCHI)

Medical Professional Societies

2016-present Women in Informatics Leadership and Awards Committee member, AMIA
 2015-2019 Committee on Technology and Value Assessment member, SAGES
 2015-2016 Summit on Surgical Telementoring – Technology Assessment and Guidelines Group, member, Society of American Gastrointestinal and Endoscopic Surgeons (SAGES)

National Funding Panel Reviewing

2015, '16, '18 NSF Proposal Review Panel

Computing Research Association (CRA) and Computing Community Consortium (CCC) Reviewing

2020 Computing Innovation Fellows 2020 Reviewer

Journal Associate Editor/Editorial Board

2021-present ACM Transaction on Computer-Human Interaction (TOCHI)
 2020-present ACM Proceedings of the ACM: Human-Computer Interaction (PACM:HCI)
 2016-present Computer Supported Cooperative Work (CSCW)
 2013-2018 International Journal of Human Computer Studies (IJHCS)
 2011-2018 Personal and Ubiquitous Computing (PUC)

Conference Program Committee Associate Chair / Subcommittee Chair - Year refers to year of conference

2019 ACM Conference on Human Factors in Computing Systems (CHI) Subcommittee Chair
 2014, 2017-18 ACM Conference on Human Factors in Computing Systems (CHI) Associate Chair
 2013-2014 ACM Conference on Computer-Supported Cooperative Work (CSCW)
 2016 IEEE International Conference on Healthcare Informatics (ICHI)
 2012 ACM Conference on Designing Interactive Systems (DIS)
 2012 ACM Conference on Human-Computer Interaction w/Mobile Devices and Services (MobileHCI)
 2009, 2011 ACM Conference on Human Factors in Computing Systems (CHI) Works-in-Progress

Conference Committees - Year refers to year of conference*EUSSET European Conference on Computer-Supported Cooperative Work (ECSCW)*

2022 Exploratory Papers Co-Chair

ACM Conference on Human Factors in Computing Systems (CHI)

2016 Late Breaking Work Co-chair

2012 Workshops Co-chair

2008 Communications Co-chair

2007 Conference Chair's Assistant

ACM Conference on Computer-Supported Cooperative Work (CSCW)

2015 Doctoral Colloquium Panel

2014 Best Paper Committee Co-chair

2011 Publications Chair

Workshop on Interactive Systems in Healthcare (WISH)

2013/14/16/17 Steering Committee member

Journal Reviewing

2018-2019 Surgical Innovation
 2018 Health Informatics Journal
 2013-2015 ACM Transactions on Computer-Human Interaction (TOCHI)
 2015-2017 Interacting with Computers (IwC)
 2016 International Journal of Computer Assisted Radiology and Surgery (IJCARS)
 2015 Disability and Rehabilitation: Assistive Technology
 2008-2013 International Journal on Human-Computer Studies (IJHCS)
 2012-2013 Journal of Human Computer Interaction (HCI)
 2010 International Journal of Medical Informatics (IJMI)
 2010 IEEE Transactions on Haptics

Conference Reviewing - Year refers to year of conference

2004-2020 ACM Conference on Human Factors in Computing Systems (CHI)

2015-2019 American Medical Informatics Association (AMIA)

2006/08/10-18 ACM Conference on Computer-Supported Cooperative Work (CSCW)

2016 ACM Human Robot Interaction (HRI)

2015 ACM Conference on Interactive Tabletops and Surfaces (ITS)

2014-2015 ACM Pervasive and Ubiquitous Computing (Ubicomp)

2013-2017 Workshop on Interactive Systems in Healthcare (WISH)
2014 ACM Nordic Conference on Human-Computer Interaction (NordiCHI)
2013-2014 Grace Hopper Celebration of Women in Computing
2010, 14, 16 ACM Conference on Designing Interactive Systems (DIS)
2012 Pervasive Computing Technologies for Healthcare (Pervasive Health)
2011 Int. Conf. on Human-Computer Interaction with Mobile Devices and Services (MobileHCI)
2009 Information Systems for Crisis Response and Management (ISCRAM)

Membership

Professional Societies

2002-present Association of Computing Machinery (ACM)
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2002-present ACM Special Interest Group on Computer-Human Interaction (SIGCHI)
2013-present American Medical Informatics Association (AMIA)
2013-present Society of American Gastrointestinal and Endoscopic Surgeons (SAGES)

UMBC

2014-present Interactive Systems Research Center (ISRC)
2019-present Center for Social Science Scholarship (CSSS)

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