

## CURRICULUM VITAE

**HELENA M. MENTIS**

### **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

### **Experience in Higher Education**

2013-current University of Maryland, Baltimore County, Assistant Professor, Information Systems  
2012-2013 Harvard Medical School, Research Fellow, Surgery  
2010-2012 Corpus Christi College, University of Cambridge, Fellow, Computer Science

### **Experience in Other than Higher Education**

2012-2013 Cambridge Health Alliance, Research Coordinator  
2010-2012 Microsoft Research, Postdoctoral Researcher  
2009-2010 Swedish Institute of Computer Science, ERCIM Postdoctoral Fellow  
2003-2009 Lockheed Martin, Senior Systems Engineer  
2000-2001 Philips Research, Researcher

### **Honors Received**

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

### **RESEARCH SUPPORT AND/OR FELLOWSHIPS**

*External (\$1,720,451)*

2018 – 2021 \$499,587, National Science Foundation (NSF), SaTC-1714514  
PI:**Helena Mentis**; coPIs:Galina Madjaroff, Peter Rabins  
*SaTC: CORE: Small: Negotiating Cyber Systems Access for Older Adults with Mild Neurocognitive Disorder*

2017 – 2018 \$356,657, National Science Foundation (NSF), CNS-1730033  
PI:Wayne Lutters; coPIs:Andrea Kleinsmith, Anita Komlodi, Ravi Kuber, **Helena Mentis**  
*II-New: Flexible User Interaction Instrumentation for Ubiquitous and Immersive Computing Environments*

2016 – 2021 \$518,121, National Science Foundation (NSF), IIS-1552837  
PI:**Helena Mentis**  
*CAREER: Collaborative Image Manipulation and Annotation in Surgical Telemedicine*  
\$14,230, CLB Supplemental – September-December 2017, IIS-1745794

2014 – 2017 \$296,506, National Science Foundation (NSF), IIS-1422671  
(NCE 2018) PI:**Helena Mentis**  
*CHS: Small: Gestural Image Annotation Systems in Coordinated Surgical Practice*  
\$14,000, REU Supplemental – Summer 2017, IIS-1742641

2014 – 2015 \$21,350, National Science Foundation (NSF), IIS-1506889  
PI:**Helena Mentis**

*WORKSHOP: Computer Supported Cooperative Work 2015 Doctoral Research Colloquium**Internal (\$56,386)*

- 2016 – 2017 \$29,886.00, UMBC CoEIT Strategic Plan Implementation Grant Program  
 PI: Wayne Lutters; coPIs: Stacy Branham, Amy Hurst, Andrea Kleinsmith, Anita Komlodi, Ravi Kuber, **Helena Mentis**  
*Revitalizing the COEIT User Studies Labs*
- 2016 – 2017 \$5,000, UMBC CoEIT Strategic Plan Implementation Grant Program  
 PI: Amy Hurst; coPIs: Andrea Kleinsmith, Anita Komlodi, Ravi Kuber, Wayne Lutters, **Helena Mentis**  
*Proposal to Join the Human-Computer Interaction Consortium (HCIC)*
- 2014 – 2016 \$1,500, UMBC Undergraduate Research Assistantship Support (URAS)  
 PI: **Helena Mentis**  
*Comparing Movement Sensors*
- 2014 – 2016 \$20,000, UMBC Special Research Assistantship/Initiative Support (SRAIS)  
 PI: **Helena Mentis**  
*Assessing the Validity of Vision-Based Body Tracking for Gait Analysis*

**Ph.D. Students***Committee Chair*

- Galina Madjaroff, Human-Centered Computing, proposed May 2017, defense expected Fall 2018  
 Yuanyuan Feng, Information Systems, post comps, proposal expected November 2017  
 Rita Shewbridge, Human-Centered Computing, post comps, proposal expected May 2018  
 Kyle Althoff, Information Systems, 4<sup>th</sup> year  
 Adegboyega Akinsiku, Human-Centered Computing, 2<sup>nd</sup> year

*Committee Member*

- Alyson Young, Human-Centered Computing, graduated August 2015  
 Michele Williams, Human-Centered Computing, graduated December 2015  
 Kelley Gurley, Human-Centered Computing, graduated May 2016  
 Patrick Carrington, Human-Centered Computing, graduated August 2017  
 Erin Buehler, Human-Centered Computing, expected December 2017

**Undergraduate Students**

- Yasmin Graham, MARC U\*STAR Scholar, Fall 2017-current, mentor  
 Zachary Holtzman, Interdisciplinary Studies Major, Fall 2016-current, committee member  
 Jordan Ramsey, MARC U\*STAR Scholar, Fall 2015-Fall 2017, mentor

**PUBLICATIONS, PRESENTATIONS, AND CREATIVE ACHIEVEMENTS****Publications**

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 – students are notated with an asterisk (\*) in the list below. 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***

- J15 **Mentis, H.M.** (to appear in 2017). Collocated Use of Imaging Systems in Coordinated Surgical Practice.  
*Proceedings of the ACM: Human-Computer Interaction, 1, 2, article 78, 1-18.*

- 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., †Schwartzberg, 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., & †Schwartzberg, 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.

- C25 \*Feng, Y. & **Mentis, H.M.** (to appear in 2017). Improving Common Ground Development in the Surgical Training through Talk and Action. In *AMIA Annual Symposium Proceedings* (Vol. xxxx, p. xxxx). American Medical Informatics Association.
- C24 \*Madjaroff, G. & **Mentis, H.M.** (to appear in 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. xxx-xxx), 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.)

### Non-Peer-Reviewed Works

#### Books

- 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.
- 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

- 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.
- 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.
- 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.

**Mentis, H. M.** (2007). Memory of frustrating experiences. In D. Nahl & D. Bilal (Eds.), *Information and Emotion* (pp. 197-210). Medford, NJ: Information Today.

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.

### **Presentations**

*The following presentations are in addition to the accompanying presentation of the papers listed under Highly Selective Conference Papers. The presenters for each presentation or poster are underlined.*

#### ***Conference Presentations (Refereed)***

\*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.*

**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.

**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.

Hoefl, R.M. & **Mentis, H.M.** (October, 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.

**Mentis, H. M.** & Hoefl, R. M. (March, 2009). Where are we? One company's collective interpretation of HSI in the SE process. *Proc. of the 2009 Human Systems Integration Symposium*, Annapolis, MD.

Hoefl, R. M. & **Mentis, H. M.** (March, 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.

**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.

#### ***Poster Presentations (Refereed)***

\*Madjaroff, G., **Mentis, H.**, & Ronch, J. (May, 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.

\*Feng, Y., †Zahiri, H., & **Mentis, H.M.** (November, 2015). Challenges for Residents in Following Instruction in Laparoscopic Surgery. *Presented at the American Medical Informatics Association (AMIA) Annual Symposium.*

†Rahim, A.A., †Theodore, P.R., & **Mentis, H.M.** (April, 2015). Operating room telemedicine: A study of Google Glass in transplant surgery. *Proceedings of the Society for American Gastrointestinal Endoscopic Surgeons 2015 Annual Meeting.*

\*Feng, Y., \*Wong, C., **Mentis, H.M.**, & †Park, A. (April, 2015). Taxonomy of instructions given to residents in laparoscopic cholecystectomy. *Proceedings of the Society for American Gastrointestinal Endoscopic Surgeons 2015 Annual Meeting.*

**Mentis, H.M.**, †Rahim, A., & †Theodore, P.R. (April, 2015). Referencing CT scans through a headmounted optical display during laparoscopic surgery. *Proceedings of the Society for American Gastrointestinal Endoscopic Surgeons 2015 Annual Meeting*.

\***Wong, C.**, \*Feng, Y., **Mentis, H.M.**, Chellali, A., †Zahiri, H., & †Park, A. (April, 2015). Using Hierarchical Task Analysis to Incorporate Decision-Making Into Simulation-Based Laparoscopic Training. *Human Factors and Ergonomics in Health Care*.

**O’Kane, A.** & **Mentis, H.M.** (May, 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.

**Mentis, H.M.** & Rosson, M.B (April, 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.

**Convertino, G.**, **Mentis, H.**, Ting, A., Ferro, C., Carroll, J. M. (July, 2007). Measuring common ground in geo-collaboration. *Proceedings of the 12th International Conference on Human-Computer Interaction (HCI)*, Beijing, China, New York: Springer.

Devlin, R. C. & **Mentis, H. M.** (April, 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.

**Lacava, D.** & **Mentis, H. M.** (July, 2005). Beginning design without a user: Application of scenario-based design. *Proceedings of the 11th International Conference on Human-Computer Interaction (HCI)*, Las Vegas, NV.

### ***Other Professional Presentations***

#### *Workshops*

\***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]

\***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]

**Mentis, H.** (2012). Pushing the Boundaries of Intraoperative Image Use. Presented at the AMIA 2012 Workshop on Interactive Systems in Healthcare (WISH). [Refereed]

**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.

**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]

**Mentis, H.** (2010). Affective healthcare experiences. Presented at the CSCW 2010 Workshop on CSCW Research in Healthcare: Past, Present, and Future.

**Cramer, H.**, **Mentis, H.**, Fernaeus, Y. (2010). Playful experiences. Presented at the CSCW 2010 Workshop on Fun, seriously?

**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.

**Mentis, H. M.** (2005). Insight into strong emotional experiences through memory. Presented at the CHI 2005 Workshop on Evaluating Affective Interfaces.

### ***Invited Talks and Panels***

“Crafting the Image in Surgery,” University of California San Diego Design Lab Studio Session, February 7, 2017.

“Crafting the Image in Surgery,” Uppsala University Seminar, June 9, 2016.

“Bringing the Kinect to the Operating Room,” USC Beaufort Student Research & Scholarship Day, April 18, 2016.

“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.

“Crafting the Image in Surgical Telemedicine,” University of Washington DUB Seminar, February 24, 2016.

“Surgical Practices in Referencing Images in Collaboration and Instruction,” Imaging and Interaction in Medical Practice, February 28, 2015.

“Person-Centered Technologies for Healthy and Connected Aging,” Invited Talk for ProAging, October 10, 2014.

“Interpreting Kinect and Google Glass for Surgical Practice,” Invited Talk for GE Global Research, July 15, 2014.

“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.

“Tracking the Body in Healthcare,” Invited Talk for University of Maryland Human Computer Interaction Lab, January 30, 2014.

“Embracing Methodological Challenges in Clinical Systems Fieldwork,” Panel for Workshop on Interactive Systems in Healthcare, November 16, 2013.

“Monitoring Progressive Disease Health Behavior in the Home for Palliative Care,” Invited Talk for MSR Body Tracking in Healthcare, November 12, 2013.

“Seeing the Body: Issues in Automated Sensing of Movement Disorders,” Invited Panel for Wireless Health, November 3, 2013.

“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.

“Realizing Touchless Interaction in the Operating Theatre,” Invited Talk for Microsoft Research Cambridge PhD Summer School, July 03, 2012.

“Interacting without Touch,” Invited Talk for the Faculty of Politics, Psychology, Sociology and International Studies, University of Cambridge, May 25, 2012.

“Third Wave HCI and Gestural Interaction,” Invited Talk for the Computer Laboratory, Cambridge University, Cambridge, UK, February 2011.

“Third Wave HCI and the Body,” Invited Talk for The Gerard Duveen Social Sciences Society, Corpus Christi College, Cambridge University, Cambridge, UK, February 2011.

“Tensions in Designing for the Expression of Emotion,” Invited Talk for Microsoft Research Cambridge, Cambridge, UK, June 2010.

“The Challenges of Invisible Emotions,” Invited Talk for Aarhus University Computer Science Department, Aarhus, Denmark, March 2010.

“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.

“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.



“Invisible Emotions: Designing for Critical Information,” Invited Talk for the Mobile Life Centre at the Swedish Institute of Computer Science, Kista, Sweden, May 2009.

“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.

“HCI in the Workplace,” Invited Talk for Cornell SIGCHI Distinguished Lectureship Series, Ithaca, NY, USA, February 2004.

### ***Media Interviews***

Macleod, J. S. (2014, August). A boomer’s guide to 65. Baltimore Magazine.

Knight, M. (2012, August 16). Xbox Kinect hacks set innovation in motion. CNN Tech, Edge of Discovery.

Brimelow, A. (2012, May 31). Trial of "touchless" gaming technology in surgery. BBC News, Health.

Brimelow, A. (2012, May 31). Touchless technology put to test by surgeons. BBC News. [TV]

Campbell, M. (2012, May 17). Kinect imaging lets surgeons keep their focus. New Scientist, Tech.

Tu, J.I. (2012, March 7). Microsoft's TechFest Trots Out 'What is Now Possible' for Computers. The Seattle Times, Business/Technology.

Clapaud, A. (2012, March 7). Microsoft Installe Kinect Dans les Salles D'operation. 01net. [French]

Salman. (2012, March 6). Microsoft Shows Off Kinect-Based Projects at TechFest Research Fair. The Tech Journal.

Foley, M-J. (2012, March 6). Microsoft showcases new Kinect-centric projects at its TechFest Research Fair. ZDNet.

## **SERVICE TO THE DEPARTMENT, UNIVERSITY, COMMUNITY AND PROFESSION**

### **Service to the Department**

2017-2018	IS Department Research Committee member
2016-2017	IS Department Assessment Committee member
2015-2016	IS Department HCC Graduate Program Committee member
2014-2015	IS Department Search Committee member
2014-2017	Academic advising for IS and HCC Master’s students

### **Service to the College**

2017-current	Blackboard Faculty Advisory Group, UMBC Division of Information Technology
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### **Service to the Profession**

#### **Professional Society Service**

2015-present	ACM SIGCHI Executive Vice President
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#### **National Funding Panel Reviewing**

2015, 2016	NSF Proposal Review Panel
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#### **Journal Associate Editor**

2016-present	Computer Supported Cooperative Work
2013-present	International Journal of Human Computer Studies
2011-present	Personal and Ubiquitous Computing

#### **Conference Program Committee Associate Chair (AC) - Year refers to year of conference**

2014, 2017-18	ACM Conference on Human Factors in Computing Systems (CHI)
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

*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

**Medical Professional Society Working Groups**

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

**Journal Reviewing**

- 2013-2015 ACM Transactions on Computer-Human Interaction (TOCHI)  
 2015-2016 Interacting with Computers (IwC)  
 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

- 2015 ACM Conference on Interactive Tabletops and Surfaces (ITS)  
 2015-2017 American Medical Informatics Association (AMIA)  
 2004-2016 ACM Conference on Human Factors in Computing Systems (CHI)  
 2006/08/10-16 ACM Conference on Computer-Supported Cooperative Work (CSCW):  
 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, 2014 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 in Professional Societies**

2002-present Association of Computing Machinery (ACM)  
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)

*Updated: September 13, 2017*