

# Matthew Louis Mauriello CV

Assistant Professor, Dept. of Computer & Information Sciences  
College of Engineering, University of Delaware  
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## BIO STATEMENT

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I am an **Assistant Professor** in the Department of **Computer & Information Sciences** at the **University of Delaware**. My work is broadly in **Human-Computer Interaction (HCI)** and **Ubiquitous Computing**, where I focus on **sustainability, human-building interactions, wearables, personal informatics, education, health & well-being**, and **games**. The aim of my research is twofold: (i) to understand and improve the role of technology with respect to personal and societal issues and (ii) to complement and extend rather than supplant user capabilities. My approach begins with formative work to explore user challenges and perceptions that help identify what roles HCI might play (e.g., alleviating pain points). This work typically informs an iterative design and engineering phase that results in a cyber-physical or software system that leverages advances from diverse areas of computer science (e.g., machine learning, image processing, information visualization, social computing) that I evaluate through a mixed methods approach that includes surveys, interviews, usability studies, field deployments, and controlled trials.

## EDUCATION

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### University of Maryland

2018 Doctor of Philosophy in Computer Science  
Area: Human-Computer Interaction (HCI), Ubiquitous Computing, & Sustainable HCI  
Dissertation: Designing and Evaluating Next-Generation Thermographic Systems to Support Residential Energy Audits  
Committee: Jon E. Froehlich (Chair/Advisor), Andrea Grover, David W. Jacobs, Niklas Elmqvist, & Michelle Mazurek

### State University of New York at Albany

2010 Master of Business Administration  
Area: Information Technology Management  
Thesis: The Influence of Leadership Behavior and Social Factors on the Effectiveness of Task-Interdependent Teams  
Advisor: Thomas Taber

2008 Master of Science, Computer Science and Applied Mathematics  
Area: Software Architecture & Project Management  
Qualifying Project: The Design of a Content & Business Management System for Collegiate Sports  
Advisor: Mei-Hwa F. Chen

2007 Bachelor of Science, Computer Science and Applied Mathematics  
Advisor: Paliath Narendran

## RESEARCH & WORK EXPERIENCE

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**Assistant Professor, University of Delaware**, Newark, DE, 2021 – Present  
Computer & Information Sciences, College of Engineering; Sensify Lab, Director.  
Affiliate Faculty: Data Science Institute; Delaware Energy Institute; Delaware Environmental Institute; Game Studies & eSports; AI Center of Excellence; MS in Data Science (MSDS)

**Postdoctoral Scholar, Stanford University**, Stanford, CA, 2019 – 2020  
School of Medicine, Pervasive Wellbeing Technology Lab. Advisor: Dr. Pablo E. Paredes

**Visiting Postdoctoral Scholar, Stanford University & Oregon State University**, Stanford, CA, 2018 – 2019  
Civil and Environmental Engineering Dept. & School of Public Policy (resp). Advisors: Dr. Ram Rajagopal & Dr. Hilary Boudet

**Graduate Research Assistant, UMIACS, University of Maryland**, College Park, MD, 2014 – 2018  
Makeability Lab, Human-Computer Interaction Lab, Department of Computer Science. Advisor: Dr. Jon E. Froehlich

**User Experience Research Intern, Microsoft Research**, Bellevue, WA, 2015  
Bing UX & Applied Machine Learning, Advisors: Tapas Kanungo & Susan Dumais

**Teaching Assistant, Department of Computer Science, University of Maryland**, College Park, MD, 2012 – 2016  
Introduction to Human-Computer Interaction, Introduction to Image Processing, Introduction to Computer Systems, etc.

**University Career Center & the President's Promise, University of Maryland**, College Park, MD, 2010 – 2012  
Web Services Developer

**Research Intern, School of Business, University at Albany, State University of New York**, Albany, NY, 2010  
Information Technology Management Department. Advisor: Dr. Sanjay Goel

**President, Intriguing Design Studios Incorporated**, Albany, NY, 2007 – 2018  
Project Manager & Developer; freelance website, web services, and application development

## RESEARCH & WORK EXPERIENCE (Continued)

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**Graduate Assistant, New York State Office of Cyber Security**, Albany, NY, 2007 - 2010

Project Administration & Reporting; Web Applications Developer

**Undergrad Asst, Library Systems, University Library, State University of New York at Albany**, Albany, NY, 2006 - 07

Information Technology Technician & Application Programmer

**Undergrad Asst, Interactive Media Center, University Library, State University of New York at Albany**, Albany, NY, 2006 – 07

Information Technology Technician & Consultant

**Project Management Intern, The Office of the Chief Information Officer, Office of the State Comptroller**, Albany, NY, 2006

Project Administration & Reporting; Web Applications Developer

**Information Technology Intern, Applied Robotics Incorporated**, Glenville, NY, 2002-2003

Information Technology Technician & Project Management & CAD Assistant

## HONORS & PROFESSIONAL DEVELOPMENT

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- 2023 (Nominated) UD College of Engineering Excellence in Mentoring and Advising Award
- 2023 (Nominated) UD College of Engineering Excellence in Diversity and Inclusion Award
- 2023 Cultural Competence in Computing (3C) Fellow (Cohort 3)
- 2022 (Nominated) UD College of Engineering Excellence in Teaching Award
- 2022 Vistage Leadership Fellow, College of Engineering, University of Delaware
- 2022 Excellent Reviewer, ACM SIGCHI, CHI 2022
- 2018 Excellent Reviewer, ACM SIGCHI, CHI 2018
- 2017 Excellent Reviewer, ACM SIGCHI, CHI-PLAY 2017
- 2017 Excellent Reviewer, ACM SIGCHI, CHI 2017
- 2017 ALL S.T.A.R. Fellow, The Graduate School, University of Maryland
- 2017 Future Faculty Fellow, The Clark School, University of Maryland
- 2016 Jacob K. Goldhaber Travel Award, The Graduate School, University of Maryland
- 2015 Outstanding Graduate Assistant Award, The Graduate School, University of Maryland
- 2015 Level 1 Thermographer Certification, Infrared Training Center
- 2014 HCIL Conference Travel Award, Human-Computer Interaction Lab, University of Maryland
- 2013 Distinguished Teaching Assistant Award, Center for Teaching Excellence, University of Maryland
- 2013 John D. Gannon Travel Award, Department of Computer Science, University of Maryland
- 2012 IGDA Scholar Award, International Game Developers Association
- 2011 Graduate Participant, Revolutionary Aerospace Systems Concept Academic Linkage, National Institute of Aerospace
- 2010 Certified Scrum Master, Scrum Alliance
- 2010 Global Business Strategic Management Team Champion Award, The Business School, University at Albany
- 2003 EntrePrep, Lally School for Entrepreneurial Leadership, Rensselaer Polytechnic Institute

## CONFERENCE PUBLICATIONS

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*Conferences are the top-tier academic publishing venues for computer scientists. Thus, most of my work is published here.*

- 2023 Tong, X., **Mauriello, M.L.**, Mora-Mendoza, M.A., Prabhu, N., Kim, J.P., and Paredes, P.E. (2023). “Just Do Something: Comparing Self-proposed and Machine-recommended Stress Interventions among Online Workers with Home Sweet Office.” *In Proceedings of ACM CHI 2023 Conference on Human Factors in Computing Systems* [Acceptance Rate: 28% (879/3182)]
- 2022 Kong, M., **Mauriello, M.L.**, and Pollock, L. (2022). “Exploring K-8 Teachers’ Preferences in a Teaching Augmentation System for Block-Based Programming Environments.” *In Proceedings of Koli Calling 2022*. [Acceptance Rate: 17% (18/105)]
- 2019 **Mauriello, M.L.**, McNally, B., and Froehlich, J.E. (2019). “Thermporal: An Easy-to-Deploy Temporal Thermographic Sensor System to Support Residential Energy Audits.” *In Proceedings of ACM CHI 2019 Conference on Human Factors in Computing Systems* [Acceptance Rate: 24% (705/2960)].
- 2018 **Mauriello, M.L.**, McNally, B., Buntain, C., Bagalkotkar, S., Kushnir, S., and Froehlich, J.E. (2018). “A Large-Scale Analysis of YouTube Videos Depicting Everyday Thermal Camera Use.” *In Proceedings of ACM MobileHCI 2018 Conference on Human-Computer Interaction with Mobile Devices & Services in Computing Systems* [Acceptance Rate: 24% (50/213)].
- 2018 Golbeck, J., **Mauriello, M.L.**, Auxier, B., Bhanushali, K.H., Bonk, C., Bouzaghane, M.A., Buntain, C., *et al.*, (2018). “Fake News vs Satire: A Dataset and Analysis.” *In Proceedings of the 10th ACM Conference on Web Science* [Acceptance Rate: 27% (30/113)]. **Best of WebSci’18.**

## CONFERENCE PUBLICATIONS (Continued)

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- 2018 McNally, B., Kumar, P., Hordatt, C., **Mauriello, M.L.**, Naik, S., Norooz, L., Shorter, A., Golub, E., and Druin, A., (2018). "Co-Designing Mobile Online Safety Applications with Children." *In Proceedings of ACM CHI 2018 Conference on Human Factors in Computing Systems* [Acceptance Rate: 26% (667/2595)].
- 2017 **Mauriello, M.L.**, Saha, M., Brown, E., and Froehlich, J.E., (2017). "Exploring Novice Approaches to Smartphone-Based Thermographic Energy Auditing: A Field Study." *In Proceedings of ACM CHI 2017 Conference on Human Factors in Computing Systems* [Acceptance Rate: 25% (606/2424)].
- 2017 McNally, B., **Mauriello, M.L.**, Guha, M.L., and Druin, A., (2017). "Gains from Participatory Design Team Membership as Perceived by Child Alumni and their Parents." *In Proceedings of ACM CHI 2017 Conference on Human Factors in Computing Systems* [Acceptance Rate: 25% (606/2424)].
- 2016 McNally, B., Guha, M.L., **Mauriello, M.L.**, and Druin, A., (2016). "Children's Perspectives on Ethical Issues Surrounding their Past Involvement on a Participatory Design Team." *In Proceedings of ACM CHI 2016 Conference on Human Factors in Computing Systems* [Acceptance Rate: 23% (538/2300)].
- 2015 **Mauriello, M.L.**, Norooz, L., and Froehlich, J.E., (2015). "Understanding the Role of Thermography in Energy Auditing: Current Practices and the Potential for Automated Solutions." *In Proceedings of ACM CHI 2015 Conference on Human Factors in Computing Systems* [Acceptance Rate: 23% (495/2150)]. **Best Paper Honorable Mention.**
- 2015 Norooz, L., **Mauriello, M.L.**, Jorgensen, A., McNally, B., and Froehlich, J.E., (2015). "BodyVis: A New Approach to Body Learning through Wearable Sensing and Visualization." *In Proceedings of ACM CHI 2015 Conference on Human Factors in Computing Systems* [Acceptance Rate: 23% (495/2150)]. **Best Paper Honorable Mention.**
- 2014 **Mauriello, M.L.**, Gubbels, M., Froehlich, J. E., (2014). "Social Fabric Fitness: The Design and Evaluation of Wearable E-Textile Displays to Support Group Running." *In Proceedings of ACM CHI 2014 Conference on Human Factors in Computing Systems*. [Acceptance Rate: 23% (464/2034)]

## JOURNAL PUBLICATIONS

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All journal publications below are publications that have not appeared in other peer-reviewed venues.

- 2023 Vemuri, V., Heintzelman, M., Waad, A., **Mauriello, M.L.**, Decker, K., and Dominick, G., (2023). "Toward Dynamic Action Planning with User Preferences in Automated Health Coaching." *Smart Health*.
- 2022 Becerik-Gerber, B., Lucas, G., Aryal, A., Awada, M., Bergés, M., Billington, S.L., ... **Mauriello, M.L.**, ... and Zhu, R. (2022). "The field of human building interaction for convergent research and innovation for intelligent built environments." *Scientific Reports*, 12(1), 22092.
- 2022 Becerik-Gerber, B., Lucas, G., Aryal, A., Awada, M., Bergés, M., Billington, S.L., ... **Mauriello, M.L.**, ... and Zhao, J. (2022). "Ten questions concerning human-building interaction research for improving the quality of life." *Building and Environment*, 226, 109681.
- 2022 Kim, L., Saha, G., Leon, A., King, J., **Mauriello, M.L.**, and Paredes, P.E., (2022). "Shared Autonomy to Reduce Sedentary Behavior among Sit-Stand Desk Users in the US and India: An Online Study." *JMIR Formative Research*.
- 2022 Douglas, I. P., Murnane, E. L., Bencharit, L. Z., Altaf, B., dos Reis Costa, J. M., Yang, J., ... **Mauriello, M.L.**, ... & Billington, S. L. (2022). "Physical workplaces and human well-being: A mixed-methods study to quantify the effects of materials, windows, and representation on biobehavioral outcomes." *Building and Environment*, 224, 109516.
- 2021 \***Mauriello, M.L.**, \*Tantivasadakarn, N., Mora-Mendoza, M.A., Lincoln, E.T., Hon, G., Nowruzi, P., Simon, D., Hansen, L., Goenawan, N.H., Kim, J., Gowda, N., Jurafsky, D., and Paredes, P.E., (2021). "A Suite of Mobile Conversational Agents for Daily Stress Management (Popbots): Mixed Methods Exploratory Study." *JMIR Formative Research*, 2021, 5(9):e25294.
- 2021 Dasler, P., Malik, S., and **Mauriello, M.L.**, (2021). "'Just Follow the Lights': A Ubiquitous Framework for Low-Cost, Mixed Fidelity Navigation in Indoor Built Environments." *International Journal of Human-Computer Studies*, 2021, 102692, ISSN 1071-5819.
- 2020 Balters, S., **Mauriello, M.L.**, Park, S.J., Landay, J.A., Paredes, P.E., (2020). "Calm Commute: Guided Slow Breathing for Daily Stress Management in Drivers." *In Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*, 4, 1, 38 (2020): 19.
- 2016 Golbeck, J., and **Mauriello, M.L.**, (2016). "User Perception of Facebook App Data Access: A Comparison of Methods and Privacy Concerns." *Future Internet*, v8.2 (2016): 9.
- 2014 Lee, T. Y., **Mauriello, M. L.**, Ahn, J., and Bederson, B. B., (2014). "CTArcade: Computational Thinking with Games in School Age Children." *International Journal of Child-Computer Interaction*, v2.1 (2014): 26-33.

## ADJUNCT PUBLICATIONS

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- 2021 **Mauriello, M.L.**, Lincoln, E.T., Hon, G., Simon, D., Jurafsky, D., and Paredes, P.E., (2021) "SAD: A Stress Annotated Dataset for Recognizing Everyday Stressors in SMS-like Conversational Systems" *In Proceedings of ACM CHI 2021 Conference on Human Factors in Computing Systems*. Extended Abstract.

#### ADJUNCT PUBLICATIONS (Continued)

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- 2021 Kim, L.H., Leon, A.A., Sankaraman, S., Jones, B.M., Saha, G., Spyopolous, A., Motani, A., **Mauriello, M.L.**, and Paredes, P.E., (2021). "The Haunted Desk: Exploring Non-Volitional Behavior Change with Everyday Robotics." *In Companion of ACM/IEEE HRI 2021 Conference on Human-Robot Interactions*. **Best LBR Award Nominee.**
- 2019 **Mauriello, M.L.**, Zanocco, C., Stelmach, G., Flora, J., Boudet, H., and Rajagopal, R., (2019). "An Energy Lifestyles Program for Tweens: A Pilot Study". *In Proceedings of ACM CHI 2019 Conference on Human Factors in Computing Systems*. Extended Abstract. [Acceptance Rate: 42% (343/813)].
- 2019 Bates, O., New, K., Mitchell-Finnigan, S., **Mauriello, M.L.**, Remy, C., Bendor, R., Mann, S., Chopra, S., Clear, A., and Priest, C., (2019). "Toward a Responsible Innovation Agenda for HCI." *In Proceedings of ACM CHI 2019 Conference on Human Factors in Computing Systems*. Extended Abstract.
- 2019 Buntain, C., Golbeck, J., Auxier, B., Assefa, G., Boyd, K., Byers, K.M., Chawla, G., Chen, D., Cooper, B.J., Cupani, J., Daetwyler, C., DeWitt, N., Garcia, S., Hafer, C., Khan, M., Lewis, E., Martindale, M. J., **Mauriello, M.L.**, et al. (2019). "Analyzing a Fake News Authorship Network. *In Proceedings of the iSchools iConference 2019*. Extended Abstract.
- 2017 **Mauriello, M.L.**, Chazan, J., Gilkeson, J., and Froehlich, J.E., (2017). "A Temporal Thermography System for Supporting Longitudinal Building Energy Audits." *In Proceedings of the 2017 ACM international Joint Conference on Pervasive and Ubiquitous Computing*. Adjunct Publication.
- 2016 **Mauriello, M.L.**, Shneiderman, B., Du, F., Malik, S., and Plaisant, C., (2016). "Simplifying Overviews of Temporal Event Sequences." *In Proceedings of ACM CHI 2016 Conference on Human Factors in Computing Systems*. Extended Abstract. [Acceptance Rate: 43% (281/647)]. **Best Paper Honorable Mention.**
- 2014 **Mauriello, M. L.**, and Froehlich, J. E., (2014). "Towards Automated Thermal Profiling of Buildings at Scale using Unmanned Aerial Vehicles and 3D-Reconstruction." *In Proceedings of the 2014 ACM international Joint Conference on Pervasive and Ubiquitous Computing*. Adjunct Publication.
- 2012 Lee, T. Y., **Mauriello, M.L.**, Ingraham, J., Sopan, A., Ahn, J., and Bederson, B. B. (2012). "CTArcade: Learning Computational Thinking while Training Virtual Characters through Game Play." *In Proceedings of ACM CHI 2012 Conference on Human Factors in Computing Systems*. Extended Abstract.

#### WORKSHOP PAPERS

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- 2022 Chandrasekaran, A., Huynh, L.M., Bencharit, L.Z., and **Mauriello, M.L.**, (2022). "Toward Computer-Mediated Emotional Monitoring and Burnout Mitigation for University STEM Students." *ACM SIGCHI 2022 The Future of Emotion in Human-Computer Interaction Workshop*.
- 2022 Khatiwada, P., Mumma, I., Halko, L., Alvanpour, A., and **Mauriello, M.L.**, (2022). "Toward Browser-based Interventions to Tackle Misinformation Online." *ACM SIGCHI 2022 Designing for Mis/Disinformation Workshop*.
- 2020 Paredes, P.E., Goel, R., and **Mauriello, M.L.**, (2020). "SWEET: Towards a Digital Wellbeing and Occupational Health Platform in the Age of the COVID-19 Pandemic." *Microsoft, New Future of Work Symposium*
- 2020 **Mauriello, M.L.**, Mora-Mendoza, M., and Paredes, P.E., (2020). "Towards Breathing Edges: A Prototype Respiration Entrainment System for Browser-based Computing Tasks." *ACM SIGCHI 2020 3<sup>rd</sup> Body as a Starting Point Workshop Exploring Themes for Imbodied Interaction Research and Design*.
- 2020 Paredes, P., Tantivasadakarn, N., Hon, G., Lincoln E.T., Gowda, N., Mora-Mendoza, M., **Mauriello, M.L.**, (2020). "Toward PopBots: A Suite of Conversational Agents for Daily Stress." *ACM SIGCHI 2020 Workshop on Conversational Agents for Health and Wellbeing*.
- 2017 **Mauriello, M.L.**, (2017). "Scalable Methods and Tools to Support Thermographic Data Collection and Analysis for Energy Audits." *ACM Ubicomp 2017 Doctoral Colloquium*.
- 2016 **Mauriello, M.L.**, Dalhausen, M., Brown, E., Saha, M., and Froehlich, J.E. (2016). "The Future Role of Thermography in Human-Building Interaction." *ACM SIGCHI 2016 Workshop on the Future of Human-Building Interaction*.

#### PREPRINTS

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- 2021 \*Khan, Y., \***Mauriello, M.L.**, Nowruz, P., Motani, A., Hon, G., Vitale, N., Li, J., Kim, J., Foudeh, A., Duvio, D., Shols, E., Chesnut, M., Landay, J., Liphardt, J., Williams, L., Sudheimer, K.D., Murmann, B., Bao, Z., and Paredes, P.E., (2021). "Design considerations of a wearable electronic-skin for mental health and wellness: balancing biosignals and human factors." bioRxiv 2021.01.20.427496

#### TECHNICAL REPORTS

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- 2018 **Mauriello, M.L.**, Buntain, C., McNally, B., Bagalkotkar, S., Kushnir, S., and Froehlich, J.E., (2018). "SMIDGen: An Approach for Scalable, Mixed-Initiative Dataset Generation from Online Social Networks." *HCIL Tech Reports*.

## DISSERTATION

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2018 **Mauriello, M.L.**, (2018). "Designing and Evaluating Next-Generation Thermographic Systems to Support Residential Energy Audits." Department of Computer Science, University of Maryland.

## MAGAZINE ARTICLES

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2021 Bendor, R., Nathan, L., **Mauriello, M.L.**, and O. Bates (2021). "Everything in the forest is the forest": A Decade of Sustainability in (Inter)Action forum'. Interactions 28(4): 65-67.

## CONFERENCE PRESENTATIONS

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"Thermoporal: An Easy-to-Deploy Temporal Thermographic Sensor System to Support Residential Energy Audits." CHI 2019, Glasgow, Scotland, United Kingdom, May 4 – 9, 2019.

"A Large-Scale Analysis of YouTube Videos Depicting Everyday Thermal Camera Use." MobileHCI 2018, Barcelona, Spain, September 3 – 6, 2018.

"Exploring Novice Approaches to Smartphone-based Thermographic Energy Auditing: A field study." CHI 2017, Denver, Colorado, USA, May 6 – 11, 2017.

"Understanding the Role of Thermography in Energy Auditing: Current Practices and the Potential for Automated Solutions." CHI 2015, Seoul, Republic of South Korea, April 18 – 23, 2015.

"Social Fabric Fitness: The Design and Evaluation of Wearable E-textile Displays to Support Group Running." CHI 2014, Toronto, Ontario, Canada, April 26 – May 1, 2014.

## POSTER PRESENTATIONS

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"Music for Autistic Listeners: A Music Theory Community Engagement Project." Pedagogy into Practice 2022. Michigan State University, June 2 – 4, 2022.

"SAD: A Stress Annotated Dataset for Recognizing Everyday Stressors in SMS-like Conversational System." CHI 2021, Online Virtual Conference. May 13 – 18, 2021.

"Perceptions of a Skin Wearable for Stress Management." eWEAR 2020 Conference, Stanford University. February 14, 2020.

"An Energy Lifestyles Program for Tweens: A Pilot Study." CHI 2019, Glasgow, Scotland, United Kingdom, May 4 – 9, 2019.

"A Temporal Thermography System for Supporting Longitudinal Building Energy Audits." UbiComp 2017, Maui, Hawaii, USA September 11 – 15, 2017.

"Simplifying Overviews of Temporal Event Sequences." CHI 2016, San Jose, California, USA, May 7 – 17, 2016.

"Towards Automated Thermal Profiling of Buildings at Scale Using Unmanned Aerial Vehicles and 3D-Reconstruction." UbiComp 2014, Seattle, Washington, USA, September 13 – 17, 2014.

"CTArcade: Learning Computational Thinking While Training Virtual Characters Through Game Play." CHI 2012, Austin, Texas, USA, May 5 – 10, 2012.

## INVITED TALKS

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"Academia vs. Industry: A Career Panel." CS + Social Good Panel Discussion, University of Delaware, May 4, 2022

"Designing Interactive Systems for Built Environments." HCI Seminar, Uppsala University, Virtual Presentation, Sept. 29, 2021

"SAD: A Stress Annotated Dataset for Recognizing Everyday Stressors in SMS-like Conversational System." Data Science Institute Community Hour, Data Science Institute (DSI), University of Delaware, Virtual Presentation, March 25, 2021

"Don't Stick It Here, Stick It There: Receptiveness to eSkin Wearables for Stress Monitoring in Northern California." Research in Progress Seminar Series, Stanford Diabetes Center, Stanford University. Virtual Seminar Presentation, May 15, 2020.

"Building Interactive Systems for Social Good." Illinois Institute of Technology, Computer Science Department, Virtual Seminar Presentation, March 24, 2020

## INVITED TALKS (Continued)

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- "Building Interactive Systems for Social Good." Michigan State University, Department of Computer Science and Engineering, Virtual Seminar Presentation, March 18, 2020.
- "Building Interactive Systems for Social Good." Tufts University, Department of Computer Science, Virtual Seminar Presentation, March 13, 2020.
- "Building Interactive Systems for Social Good." University at Albany – SUNY, Department of Computer Science, Albany, New York, USA, March 9, 2020.
- "Building Interactive Systems for Social Good." University of Texas at Dallas, Department of Computer Science, Dallas, Texas, USA, March 4, 2020.
- "Building Interactive Systems for Social Good." San Francisco State University, Computer Science Department, San Francisco, California, USA, February 27, 2020.
- "Building Interactive Systems for Social Good." University of Delaware, Department of Computer and Information Sciences, Newark, Delaware, USA, February 19, 2020.
- "Building Interactive Systems for Social Good." University of Texas at Arlington, Department of Computer Science and Engineering, Arlington, Texas, USA, February 12, 2020.
- "An Energy Lifestyles Program for Tweens: A Pilot Study." The University of Oxford, Environmental Change Institute, England, United Kingdom, May 21, 2019.
- "The Role of Thermography in Professional and Novice Energy Auditing." Owens Corning R&D, Granville, Ohio, USA, June 8, 2017.
- "Game Jam 101: A Workshop." Global Game Jam 2017, American University, Washington, DC, USA, Jan 20, 2017.
- "Tumbleweed Express: A tale of 54 game jams." International Game Developers Association (IGDA) DC Chapter Meeting, Washington, DC, USA, June 28, 2016.
- "Exploring Non-Professional Smartphone-based Thermographic Energy Auditing." 32<sup>nd</sup> Annual HCIL Symposium, College Park, Maryland, USA, May 26, 2016.
- "Game jams, SCRUM, and the Development of Independent Video Games." 1<sup>st</sup> Annual UMD Video Game Showcase, College Park, Maryland, USA, April 14, 2013.
- "Understanding the Role of Thermography in Energy Auditing: Current Practices and the Potential for Automated Solutions." University of Maryland Baltimore County, Baltimore, MD, USA, March 30, 2015.
- "Social Fabric Fitness: The Design and Evaluation of Wearable E-textile Displays to Support Group Running." Quantified Self DC, Washington, DC, USA, March 19, 2014.

## GUEST LECTURES

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- "The Case of the Therac-25." CISC355 – Computer, Ethics and Society, University of Delaware, October 4, 2023.
- "The Case of the Therac-25." CISC355 – Computer, Ethics and Society, University of Delaware, March 7, 2023.
- "The Case of the Therac-25." CISC355 – Computer, Ethics and Society, University of Delaware, January 25, 2023.
- "Enhancing User Experiences with Technology Interventions." CISC890 — NEWGRAD, University of Delaware, Nov 28, 2022
- "The Case of the Therac-25." CISC355 – Computer, Ethics and Society, University of Delaware, September 28, 2022.
- "Game Jam 101: A Workshop." CISC374 – Educational Game Development, University of Delaware, April 26, 2022.
- "Enhancing User Experiences with Technology Interventions." CISC890 — NEWGRAD, University of Delaware, Nov 5, 2021
- "Physical Computing Gotchas: Tips, Tricks, and Skills for Working in Modern Makerspaces." CSCI 8115 - Human-Computer Interaction and User Interface Technology, University of Minnesota, Virtual Guest Lecture, February 11, 2021.
- "Enhancing User Experiences with Technology Interventions." CISC890 — NEWGRAD, University of Delaware, December 7, 2020

## GRANTS, GIFTS, & AWARDS

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### University of Delaware (as assistant professor)

- 2023 **Augmenting Teaching Environments for Block-based Programming Education**  
University of Delaware, College of Engineering, Mini-Grant Program, \$5000  
Co-Author, PIs: Matthew Louis Mauriello (PI), Lori Pollock, & Minji Kong
- 2023 **Community Comms: A Personal Informatics Trial**  
University of Delaware, AI Center of Excellence, Summer Intern Program, \$1950  
Author, PI: Matthew Louis Mauriello
- 2022 **Community Comms: A Hybrid Web Mining, Crowd-powered, Online News Media Literacy Network**  
University of Delaware, Biden School of Public Policy, SNF Ithaca Student Leaders Program, \$1000  
Author, PI: Matthew Louis Mauriello
- 2022 **Interactive Music for Listeners with Autism and Related Disabilities**  
University of Delaware, Maggie E. Neumann Research Fund, \$49,000  
Co-author, PIs: Daniel B. Stevens & Matthew Louis Mauriello (Co-PI)
- 2021 **Supporting Future Crisis Line Work through the Inclusive Design of Worker-facing Tools that Empower Self-management of Wellbeing and Performance**  
National Science Foundation, Future of Work at the Human-Technology Frontier: Core Research, \$112,000  
Co-author, PIs: Elizabeth L. Murnane, Kaiping Chen, Matthew Louis Mauriello (Co-PI), & Larry Leifer
- 2021 **SMIDGen: A Scalable, Mixed-Initiative Dataset Generation Tool for Online Social Science Research**  
Sage Publishing, Sage Concept Grant Program, \$2,736  
Author, PI: Matthew Louis Mauriello

### Stanford University (as postdoc)

- 2021 **A Personalized Digital Long-term Stress Management Platform in the Age of COVID-19**  
Stanford University, Center for Artificial Intelligence in Medicine & Imaging, \$19,525 (Google Cloud)  
Co-lead author, PI: Pablo E. Paredes
- 2020 **Multimodal & Multidomain Stress Sensing**  
Stanford University, Institute for Human-Centered Artificial Intelligence Seed Grant, \$75,000  
Contributing writer, PIs: Pablo E. Paredes & Mert Pilanci
- 2020 **Personalized Long-Term Stress Management for COVID-19 Distance Learning**  
Stanford University, Spectrum Population Health Sciences Pilot Grant Program, \$40,000  
Co-lead author, PIs: Pablo E. Paredes & Jane P. Kim
- 2020 **Digital Wellbeing and Occupational Health in the Age of COVID-19**  
Stanford University, RISE Grant Program, \$50,000  
Co-lead author, PIs: Victor G. Carrion, Pablo E. Paredes, & Jane P. Kim
- 2020 **Artificial Intelligence-enabled Multimodal Stress Sensing for Precision Health**  
National Science Foundation, SenSE 20-556, \$750,000  
Contributing writer, PIs: Pablo E. Paredes, Zhenan Bao & Mert Pilanci
- 2020 **PopBots: An Army of Chatbots for Stress Management**  
Stanford University, Institute for Human-Centered Artificial Intelligence AWS Cloud Credits Grant, \$3,000  
Led proposal with co-author Pablo E. Paredes
- 2019 **IoT Infrastructure for Indoor Navigation**  
Adobe Research, Systems Technology Lab, \$10,000  
Led proposal with co-author Pablo E. Paredes

GRANTS, GIFTS, & AWARDS (Continued)

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**University of Maryland** (as graduate student)

2014            **Pervasive Thermography and Building Sustainability**  
University of Maryland, Office of Sustainability, \$11,500  
Led proposal with co-author Jon E. Froehlich

TEACHING

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**University of Delaware** (as assistant professor)

2023            Assistant Professor, CISC474: Advanced Web Technologies (Fall 2023)  
2023            Assistant Professor, CISCX87: VIP, Computing for Social Good (Fall 2023)  
2023            Assistant Professor, CISCX67: Computing for Social Good (Spring 2023)  
2023            Assistant Professor, CISC361: Operating Systems (Spring 2023)  
2023            Assistant Professor, CISCX87: VIP, Computing for Social Good (Spring 2023)  
2022            Assistant Professor, CISCX82: Introduction to Human-Computer Interaction (Fall 2022)  
2022            Assistant Professor, CISCX87: VIP, Computing for Social Good (Fall 2022)  
2022            Assistant Professor, CISC361: Operating Systems (Spring 2022)  
2022            Assistant Professor, CISCX87: VIP, Computing for Social Good (Spring 2022)  
2021            Assistant Professor, CISC474: Advanced Web Technologies (Fall 2021)  
2021            Assistant Professor, CISC466: Independent Study x 2 (Fall 2021)  
2021            Assistant Professor, CISCX87: VIP, Computing for Social Good (Fall 2021)  
2021            Assistant Professor, CISCX67: Computing for Social Good (Spring 2021)

**University of Maryland** (as graduate student)

2015            Graduate Student Instructor, CMSC838L: Advanced Topics in Programming Languages; HCI Reading Seminar  
2013 – 2016    Teaching Assistant, CMSC434: Introduction to Human-Computer Interaction  
2012            Teaching Assistant, CMSC426: Introduction to Image Processing  
2012            Teaching Assistant, CMSC216: Introduction to Computer Systems

MENTORING

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**University of Delaware** (as assistant professor)

2023 – Present    Harisha Janakiraman, MS Student, University of Delaware  
2023 – Present    Shreeya Parekh, Undergraduate Intern, University of Delaware  
2023 – Present    Christopher Bennett, Undergraduate Intern, University of Delaware  
2023 – Present    Connor Penhale, Undergraduate Intern, University of Delaware  
2023 – Present    Andrew Ngo, Undergraduate Intern, University of Delaware  
2023 – Present    Benita Abraham, Undergraduate Intern, University of Delaware  
2023 – Present    Pranav Kamath, Undergraduate Intern, University of Delaware  
2023 – Present    Axel Rodriguez-Leon, Undergraduate Intern, University of Delaware  
2022 – Present    Faith Lovell, Undergraduate Intern, University of Delaware  
2022 – Present    Owen He, Undergraduate Intern, University of Delaware  
2022 – Present    Ashrey Mahesh, Undergraduate Intern, University of Delaware  
2022 – Present    Joy Mwaria, Undergraduate Intern, University of Delaware  
2022 – Present    Kyle Wang, PhD Student (Co-Advisor with Dr. Kenneth Barner), University of Delaware  
2022 – Present    Arnav Taduvayi, High School Intern, Odyssey Charter High School  
2022 – Present    Moath Erqsous, PhD Student, University of Delaware  
2022 – Present    Fatimah Alhassan, MS Student, University of Delaware  
2022 – Present    Malika Iyer, Undergraduate Intern, University of Delaware  
2022 – Present    Avinash Chouhan, Undergraduate Intern, University of Delaware  
2022 – Present    Nabihah Syed, Undergraduate Intern, University of Delaware  
2022 – Present    Diya Shah, Undergraduate Intern, University of Delaware  
2022 – Present    London Bielicke, Undergraduate Intern, Rhodes College (CRA DREU)  
2022 – Present    Simon Brugel, Undergraduate Intern, University of Delaware  
2022 – Present    Prerana Khatiwada, PhD Student, University of Delaware  
2022 – Present    Michael Arocho, Undergraduate Intern, University of Delaware  
2021 – Present    Aishwarya Chandrasekaran, PhD Student, University of Delaware  
2021 – Present    Minji Kong, PhD Student (Co-Advisor with Dr. Lori Pollock), University of Delaware

## MENTORING (Continued)

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2023	Guru Nayak, Undergraduate Intern, University of Delaware
2022 – 2023	Ella Wilkins, Undergraduate Intern, University of Delaware
2022 – 2023	Aparna Roy, Undergraduate Intern, University of Delaware
2022 – 2023	Yuqing Pan, Undergraduate Intern, University of Delaware
2022 – 2023	JD Wang, Undergraduate Intern, University of Delaware
2022 – 2023	Maxwell Wang, Undergraduate Intern, University of Delaware
2022	Trisha Srikanth, High School Intern, Padua Academy
2021 – 2023	Luke Halko, Undergraduate Intern, University of Delaware (Data Scientist, CompassRed)
2021 – 2022	Ian Mumma, Graduate Intern, University of Delaware
2021 – 2022	Ribo Yuan, Undergraduate Intern, University of Delaware ( <i>MS Program, Northeastern University</i> )
2021 – 2022	Sahar Nilipour, MS Student, University of Delaware ( <i>Engineer, Qualcomm</i> )
2021 – 2022	Aneseh Alvanpour, Graduate Intern, University of Louisville ( <i>Modeler, Discover Financial Services</i> )
2021	Noah Hodgson, Undergraduate Intern, University of Delaware ( <i>Innovation Architect, WL Gore &amp; Associates</i> )
2021	Emily Taylor, Undergraduate Intern, University of Delaware ( <i>Software Development Engineer, Expedia Grp.</i> )
2021, 2023	Ansh Jain, High School Intern, Caravel Academy ( <i>Undergraduate Program, University of Maryland</i> )
2021	Daniel Halberg, Graduate Intern, University of Wisconsin-Madison ( <i>Associate Data Scientist, AAA</i> )
2021	Alina Christenbury, MS Student, University of Delaware ( <i>Gameplay Designer, Microsoft/The Coalition</i> )

### Stanford University (as postdoc)

2020	Parsa Nowruzi, Graduate Intern, Stanford University
2020	Dorien Simon, Undergraduate Intern, Stanford University
2020	Luke Hansen, Undergraduate Intern, Stanford University
2020	Joshua Kim, Undergraduate Intern, Stanford University
2020	Nathaniel Goenawan, Undergraduate Intern, Stanford University
2020	Gizem Incesu, Undergraduate Intern, Stanford University
2019 – 2020	Marco Antonio Mora-Mendoza, Undergraduate Intern, Stanford University
2019 – 2020	Philip Dasler, Graduate Intern, Adobe Research
2019 – 2020	Thierry Lincoln, Graduate Intern, Stanford University
2019 – 2020	Grace Hon, Graduate Intern, Stanford University
2019 – 2020	Nick Tantivasadakarn, Undergraduate Intern, Stanford University
2019	Akshara Motani, Graduate Intern, Stanford University
2018 – 2019	Kintien Wong, High School Intern, Stanford University

### University of Maryland (as graduate student)

2017 – 2018	Simran Chawla, Undergraduate Intern, University of Maryland
2017	Sapna Bagalkotkar, High School Intern, University of Maryland
2017	Samuel Kushnir, High School Intern, University of Maryland
2017	Matt Brady, Undergraduate Intern, University of Maryland
2017	Anthony Castrio, Undergraduate Intern, University of Maryland
2016	Julia Zheng, Undergraduate Intern, University of Maryland
2016	Luka Zhupa, Undergraduate Intern, University of Maryland
2016 – 2017	Manaswi Saha, Graduate Intern, University of Maryland
2015 – 2016	Erica Brown, Undergraduate Intern, University of Maryland
2014, 2016	Jamie Gilkeson, High School & Undergraduate Intern, University of Maryland
2013, 2016 – 2017	Noa Chazan, High School & Undergraduate Intern, University of Maryland

## DISSERTATION, THESIS, & SIMILAR COMMITTEES

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2023 – Present	Shreeya Parekh, Senior Thesis (Chair)
2023 – Present	Qile Wang, PhD Preliminary Exam Committee (Chair)
2023 – Present	Ankit Kulshrestha, PhD Dissertation Committee (Minor Area Faculty Member)
2022 – Present	Suhotro Gorai, PhD Dissertation Committee (Minor Area Faculty Member)
2022 – Present	Fumian Chang, PhD Dissertation Committee (Minor Area Faculty Member)
2022 – Present	Yifan Zhang, PhD Dissertation Committee (Minor Area Faculty Member)
2022 – Present	Matthew Frazier, PhD Dissertation Committee (Major Area Faculty Member)
2022 – Present	Jicheng Li, PhD Dissertation Committee (Minor Area Faculty Member)
2021 – Present	Ajith Vemuri, PhD Dissertation Committee (Minor Area Faculty Member)

## DISSERTATION, THESIS, & SIMILAR COMMITTEES (Continued)

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2023	Aishwarya Chandrasekaran, PhD Preliminary Exam Committee (Chair)
2023	Prerana Khatiwada, PhD Preliminary Exam Committee (Chair)
2021 – 2022	Yunzhi Li, PhD Dissertation Committee (Minor Area Faculty Member)
2022	Sahar Nilipour, MS Thesis Committee (Chair)
2021 – 2022	Yan-Ming Chiou, PhD Dissertation Committee (Minor Area Faculty Member)
2021	Minji Kong, PhD Preliminary Exam Committee (Major Area Faculty Member)

## PROFESSIONAL ACTIVITIES & SERVICE

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2023 – Present	Guest Editor, IEEE Pervasive Computing (Magazine): Special Issue on Pervasive Sustainability
2023 – Present	Member, UD CIS Tenure-Track Faculty Search Committee, University of Delaware
2023 – Present	Member, Institute of Electrical and Electronics Engineers (IEEE)
2023 – Present	Area Contact (HCI/HCC), UD CIS, University of Delaware
2023 – Present	Associate Chair, Interaction Design and Children (IDC) Conference
2022 – Present	COE Faculty Representative, UD Laird Fellowship Committee
2022 – Present	Chair, UD CIS Awards Committee, University of Delaware
2022 – Present	Member, SIGCHI Sustainability Committee
2022 – Present	Sustainability Co-Chair, 2023/24 ACM Conference on Human Factors in Computing Systems (CHI2023/24)
2022 – Present	Program Committee, International Conference on Advances in Computer-Human Interactions (ACHI)
2021 – Present	Faculty Mentor, UD CIS CS+ Social Good Student Organization, University of Delaware
2021 – Present	Faculty Advisor, UD COE Engineering Education Ecosystem, University of Delaware
2021 – Present	Faculty Mentor, UD COE K12 High School Internship Program, University of Delaware
2021 – Present	Reviewer, ACM International Conference on Web and Social Media (ICWSM)
2020 – Present	Associate Chair, Specific Application Areas; Human Factors in Computing Systems Conference (CHI)
2019 – Present	Reviewer, International Journal of Human-Computer Studies (IJHCS)
2018 – Present	Program Committee, ICT for Sustainability Conference (ICT4S)
2018 – Present	Member, Association for Computing Machinery (ACM) [SIGCHI & SIGCSE]
2018 – Present	Member, International Game Developers Association
2017 – Present	Reviewer, Proceedings of the ACM on Interactive, Mobile, Wearable, and Ubiquitous Technologies (IMWUT)
2016 – Present	Reviewer, Journal of Medical Internet Research (JMIR, JMIR Formative, JMIR Cardio)
2013 – Present	Reviewer, Papers & LBWs, Proceedings of the ACM on Human Factors in Computing Systems (CHI)
2008 – Present	Developer, Independent Video Game Project(s)
2020 – 2022	Member, CIS Graduate Admissions Committee, University of Delaware
2022	Participating Writer, NSF-sponsored Human Building Interaction Writing Workshop
2022	Participant, CRA 2022 Career Mentoring Workshop
2022 – 2023	Reviewer, NSF Graduate Research Fellowship Program
2022 – 2023	Reviewer, NSF IIS: HCC Grant Program Reviewer
2022	Member, Awards Committee; Human Factors in Computing Systems Conference (CHI2022)
2021 – 2022	Faculty Mentor, SNF Ithaca Initiative, The Biden School of Public Policy & Admin., University of Delaware
2021 – 2022	Member, CIS Graduate Program Committee, University of Delaware
2021	Technical Subcommittee Chair, Data Science Institute Symposium, University of Delaware
2021	Reviewer, Behavior & Information Technology (BIT)
2021	Participant, UD Center for Teaching and Learning (CTAL) Summer Institute on Teaching
2021	Reviewer, 24th Conference on Computer-Supported Cooperative Work and Social Computing (CSCW 2021)
2021	Reviewer, 9th International Conference on Affective Computing & Intelligent Interaction (ACII 2021)
2020	Reviewer, 15th ACM International Conference on Tangible, Embedded and Embodied Interaction (TEI 2021)
2020	Reviewer, UbiComp/ISWC 2020 Posters and Demos
2020	Reviewer, 11th Nordic Conference on Human-Computer Interaction (NordCHI 2020)
2020	Reviewer, ACM User Interface Software and Technology Symposium (UIST 2020)
2020	Organizer, (not-)CHI2020 Sustainable HCI Virtual Forum
2019 – 2021	Communications Chair, ACM SIGCHI Communities: HCI and Sustainability (SHCI)
2018 – 2019	Reviewer, Applied Energy (Journal)
2018, 2021	Session Chair, Human Factors in Computer Systems Conference (CHI)
2018	Graduate Admissions Committee, Department of Computer Science, University of Maryland
2018	Reviewer, Graphics Interface Conference (GI2018)

PROFESSIONAL ACTIVITIES & SERVICE (Continued)

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2018	Reviewer, Designing Interactive Systems Conference
2017 – 2018	Hackerspace Student Coordinator, Human-Computer Interaction Lab (HCIL), University of Maryland
2016 – 2017	Graduate Representative, Department Council, Department of Computer Science, University of Maryland
2017	Reviewer, Social Science Computer Review (SSCORE)
2016	Graduate Student Ambassador, Department of Computer Science, University of Maryland
2016 – 2017	Reviewer, Computer-Human Interaction in Play (CHI-PLAY)
2016	Student Volunteer, Human Factors in Computer Systems Conference (CHI)
2015 – 2016	Graduate Representative, Education Committee, Department of Computer Science, University of Maryland
2014 – 2016	Human-Computer Interaction Lab (HCIL) Social Coordinator (HCIL-Play Listserv & Social Media)
2014 – 2017	Reviewer, Pervasive and Ubiquitous Computing Conference (UbiComp)
2012 – 2018	Student Volunteer, Annual Human-Computer Interaction Lab (HCIL) Symposium
2012 – 2018	Student Member, Association for Computing Machinery (ACM) and SIGCHI
2012 – 2013	Vice President, University of Maryland Student Chapter of the Association for Computing Machinery
2012 – 2013	Guest Columnist, BaltimoreGamer
2011	Volunteer, University of Maryland STEM Expo & University of Maryland Day
2009 – 2019	Student Member, International Game Developers Association

PRESS

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2023	Cherry, A., (2023). "Learning to Love Music." UDaily (March 2023).
2022	<b>Mauriello, M.L.</b> , (2022). "SMIDGen: A scalable, mixed-initiative dataset generation tool for online social science research." SAGE Publishing (Spring 2022).
2021	Li, J., and Ahuja, K., (2021). "Making with a sustainable purpose: an interview with Matthew L. Mauriello." XRDS 27, 4 (Summer 2021), 38–41.