

**THE UNIVERSITY OF TEXAS AT AUSTIN**  
**Cockrell School of Engineering**  
**Standard Resume**

**FULL NAME:** Edison Thomaz**TITLE:** Assistant Professor**DEPARTMENT:** Electrical and Computer Engineering**EDUCATION:**

Georgia Institute of Technology      Human-Centered Computing      PhD      May 2016  
 Thesis: "Automatic Eating Detection in Real-World Settings with Commodity Sensing"  
 Advisors: Prof. *Irfan Essa* and Prof. *Gregory Abowd*

Massachusetts Institute of Technology      Media Arts and Sciences      SM      May 2002  
 Thesis: "Developing Distributed Contextualized Communication Services"  
 Advisor: Prof. *Andy Lippman*

The University of Texas at Austin      Computer Science      BA      May 1999

**PROFESSIONAL REGISTRATION:** N/A**CURRENT AND PREVIOUS ACADEMIC POSITIONS:**

The University of Texas at Austin	Assistant Professor	Aug 2018 - Present
The University of Texas at Austin	Research Assistant Professor	Jan 2016 - Aug 2018

**OTHER PROFESSIONAL EXPERIENCE:**

Slife Labs LLC	Principal	Aug 2007 - Aug 2010
France Télécom R&D	Research Scientist	Aug 2004 - Aug 2007
Microsoft Corp.	Program Manager	Aug 2002 - Aug 2004
Publicis Sapient	Software Engineer	Jan 2000 - Aug 2000

**MAJOR CONSULTING PROJECTS:**

N/A

**HONORS AND AWARDS:**

NSF CAREER Award	2023
UT Texas Instruments/Kilby Award	2022, 2021

Best Paper Honorable Mention, ACM ISWC	2022
UT ECE Kilby Award	2020
UT Experiential Learning Initiative Award	2019
Google Faculty Research Award	2017
Best Paper Honorable Mention, ACM CHI	2015
Best Short Paper, ACM IUI	2015
George Fellow, Georgia Institute of Technology	2014
Best Presentation Award, Pervasive Imaging Conference	2013
MIT Media Lab British Telecom Fellowship	2001
MIT Media Lab British Telecom Fellowship	2000

**MEMBERSHIPS IN PROFESSIONAL AND HONORARY SOCIETIES:**

ACM	2013-Present
IEEE	2017-Present

**UNIVERSITY AFFILIATIONS:**

Center on Aging and Populations Sciences (CAPS)	2022-Present
Wireless Networking and Communications Group (WNCG)	2016-Present
School of Information	2016-Present

**UNIVERSITY COMMITTEE ASSIGNMENTS:**

Departmental-	Student Mentoring Committee/Partners	2022-Present
	Seminar Committee	2017-Present
	Graduate Student Admissions (DICE, BioECE, SES)	2017-Present
	WCWH Smart Home Cluster Faculty Hire Committee	2019
	Junior Faculty Search Committee	2018
	Senior Faculty Search Committee	2016
Cockrell School-	Humanitarian Engineering Committee	2017-Present
	Diversity and Inclusion Committee	2017
	Equal Opportunity in Engineering Committee	2016-2017
University-	Whole-Communities Whole Health (WCWH) Task Group Lead for Wearables & Mobile	2020-Present

**PROFESSIONAL SOCIETY/GOVERNMENT SERVICE AND TECHNICAL COMMITTEES:**

Organizing Committee	ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp) Technical Program Chair	2023
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	ACM International Symposium on Wearable Computing (ISWC) Technical Program Committee Co-Chair	2022
	ACM Ubicomp Scholarship Chair	2020
	IEEE PerCom Poster Session Chair	2020
	IEEE PerCom Workshops Co-Chair	2020
	ACM CSCW Local Arrangements Co-Chair	2019
	IEEE BSN Workshop on "Automatic Dietary Monitoring"	2018
	IEEE/ACM Ubicomp Workshop on "Disasters in Personal Informatics"	2014
Associate Committee	ACM Human Factors in Comp. Systems (CHI), Health Track	2018
Program Committee	ACM International Symposium on Wearable Computing (ISWC)	2017-Present
	Digital Biomarkers Workshop (Mobisys)	2021-Present
	EAI Pervasive Health	2019
	IEEE Int. Conference on Pervasive Comp. and Comm. (PerCom)	2017
	ACM Int. Joint Conf. on Pervasive and Ubiquitous Comp. (UbiComp)	2016
Steering Committee	ACM International Symposium on Wearable Computing (ISWC)	2018-Present
	Whole-Communities Whole Health (WCWH)	2022
Editorial Board	Associate Editor, Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (PACM IMWUT)	2017-Present
Co-Chair	Life Sensing Consortium	2017-Present
	WNCG Texas Wireless Summit	2019
Panel	NSF CISE	2021
	NSF CISE	2019

**COMMUNITY ACTIVITIES:**

Science Outreach Camp (5<sup>th</sup> Graders, Del Valle, TX), Jun 21<sup>st</sup>-24<sup>th</sup> S2021

**TEACHING:**

ECE382V Human Signals: Sensing and Analytics (UT Austin ECE)	SP2023, F2021
EE380L Data Mining (UT Austin ECE)	SP2020
EE382V Activity Sensing and Recognition (UT Austin ECE)	F2020, F2018, F2016
EE422C Software Design and Implementation II (UT Austin ECE)	F2022, SP2022, SP2021, F2019, F2017
INF385T Personal Informatics (UT Austin School of Information)	SP2016, SP2017, SP2018

**PUBLICATIONS:****A. Refereed Journal Papers**

*Currently under review/revision*

Lin, Eugenia, Andrea Leyton-Mange, John Andrawis, Meredith G. Moore, Kevin J. Bozic, Edison Thomaz, Prakash Jayakumar. "The Correlation between Activity Captured using Wearable Sensors and Patient Reported Outcome Measurement of Limitations in Patients Undergoing Total Joint Replacement." *The Archives of Bone & Joint Surgery*.

*Published in rank at UT*

Liang, Dawei, Alice Zhang, Edison Thomaz. "Automated Face-to-Face Conversation Detection on a Commodity Smartwatch with Acoustic Sensing". *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*. 2023

DOI: *Not Yet Available*

Streeper, Necole M., Jason D. Fairbourn, James Marks, Edison Thomaz, Nilam Ram, and David E. Conroy. "Feasibility of mini sipIT Behavioral Intervention to Increase Urine Volume in Patients with Kidney Stones." *Urology* (2023). 2023

DOI: <https://doi.org/10.1016/j.urology.2023.06.019>

Viviane Fornasaro-Donahue, *Theodore A. Walls*, Edison Thomaz, *Kathleen J. Melanson*. "A Conceptual Model for Mobile Health-enabled Slow Eating Strategies". *Journal of Nutrition Education and Behavior*. 2023

DOI: <https://doi.org/10.1016/j.jneb.2022.08.003>

Benge, Jared, Alyssa Aguirre, Michael Scullin, Andrew Kiselica, Robin Hilsabeck, David Paydarfar, Edison Thomaz, Michael Douglas. "Digital Methods for Performing Daily Tasks among Older Adults: Frequency of Use and Perceived Utility". *Experimental Aging Research*. 2023

DOI: <https://doi.org/10.1080/0361073X.2023.2172950>

- Yao, Xuewen, Miriam Mikhelson, Eunsol Choi, S. Craig Watkins, Edison Thomaz, Kaya de Barbaro. "Understanding Postpartum Parents' Experiences via Two Digital Platforms". *Proceedings of the ACM on Human Computer Interaction*.  
DOI: <https://doi.org/10.1145/3579540> 2023
- Adaimi, Rebecca, Edison Thomaz. "Lifelong Adaptive Machine Learning for Sensor-Based Human Activity Recognition Using Prototypical Networks". *Sensors*.  
DOI: <https://doi.org/10.3390/s22186881> 2022
- Lu, Xi, Edison Thomaz, Daniel Epstein. "Understanding People's Perceptions of Approaches to Semi-Automated Dietary Monitoring". *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*.  
DOI: <https://doi.org/10.1145/3550288> 2022
- Fritz, Hagen, Sepehr Bastami, Calvin Lin, Kingsley Nweye, Tung To, Lauren Chen, Dung Le et al. "Design, fabrication, and calibration of the Building EnVironment and Occupancy (BEVO) Beacon: A rapidly-deployable and affordable indoor environmental quality monitor." *Building and Environment* (2022): 109432.  
DOI: <https://doi.org/10.1016/j.buildenv.2022.109432> 2022
- Bhattacharya, Sarnab, Rebecca Adaimi, Edison Thomaz. "Leveraging Sound and Wrist Motion to Detect Activities of Daily Living with Commodity Smartwatches". *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*.  
DOI: <https://doi.org/10.1145/3534582> 2022
- Radhakrishnan, Kavita, Christine Julien, Thomas Baranowski, Matthew O'Hair, Grace Lee, Atami S De Main, Catherine Allen, Bindu Viswanathan, Edison Thomaz, Miyong To Kim. "Feasibility of a Sensor-Controlled Digital Game for Heart Failure Self-management: Randomized Controlled Trial." *JMIR Serious Games*  
DOI: <https://doi.org/10.2196/29044> 2021
- Wu, Congyu, Hagen Fritz, Sepehr Bastami, Juan P. Maestre, Edison Thomaz, Christine Julien, Darla M. Castelli et al. "Multi-modal data collection for measuring health, behavior, and living environment of large-scale participant cohorts." *GigaScience* 10, no. 6 (2021): giab044.  
DOI: <https://doi.org/10.1093/gigascience/giab044> 2021
- Adaimi, Rebecca, Howard Yong, and Edison Thomaz. "Ok Google, What Am I Doing? Acoustic Activity Recognition Bounded by Conversational Assistant Interactions." *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies* 5, no. 1 (2021): 1-24.  
DOI: <https://doi.org/10.1145/3448090> 2021

- Wu, Congyu, Amanda N. Barczyk, R. Cameron Craddock, Gabriella M. Harari, Edison Thomaz, Jason D. Shumake, Christopher G. Beevers, Samuel D. Gosling, and David M. Schnyer. "Improving prediction of real-time loneliness and companionship type using geosocial features of personal smartphone data." *Smart Health* 20 (2021): 100180.  
DOI: <https://doi.org/10.1016/j.smhl.2021.100180>
- Radhakrishnan, Kavita, Christine Julien, Matthew O'Hair, Thomas Baranowski, Grace Lee, Catherine Allen, Atami Sagna, Edison Thomaz, and Miyong Kim. "Usability testing of a sensor-controlled digital game to engage older adults with heart failure in physical activity and weight monitoring." *Applied Clinical Informatics* 11, no. 05 (2020): 873-881.  
DOI: <https://doi.org/10.1055/s-0040-1721399>
- Bell, Brooke M., Ridwan Alam, Nabil Alshurafa, Edison Thomaz, Abu S. Mondol, Kayla de la Haye, John A. Stankovic, John Lach, and Donna Spruijt-Metz. "Automatic, wearable-based, in-field eating detection approaches for public health research: a scoping review." *NPJ digital medicine* 3, no. 1 (2020): 1-14.  
DOI: <https://doi.org/10.1038/s41746-020-0246-2>
- Streeper, Necole M., Alexandra Dubnansky, Ashley B. Sanders, Kathleen Lehman, Edison Thomaz, and David E. Conroy. "Improving fluid intake behavior among patients with kidney stones: understanding patients' experiences and acceptability of digital health technology." *Urology* (2019).  
DOI: <https://doi.org/10.1016/j.urology.2019.05.056>
- Adaimi, Rebecca, and Edison Thomaz. "Leveraging active learning and conditional mutual information to minimize data annotation in human activity recognition." *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies* 3, no. 3 (2019): 1-23.  
DOI: <https://doi.org/10.1145/3351228>
- Radhakrishnan, Kavita, Thomas Baranowski, Christine Julien, Edison Thomaz, and Miyong Kim. "Role of digital games in self-management of cardiovascular diseases: A scoping review." *Games for health journal* 8, no. 2 (2019): 65-73.  
DOI: <https://doi.org/10.1089/g4h.2018.0011>
- Liang, Dawei, and Edison Thomaz. "Audio-based activities of daily living (adl) recognition with large-scale acoustic embeddings from online videos." *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies* 3, no. 1 (2019): 1-18.  
DOI: <https://doi.org/10.1145/3314404>

Chun, Keum San, Sarnab Bhattacharya, and Edison Thomaz. "Detecting eating episodes by tracking jawbone movements with a non-contact wearable sensor." *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*2, no. 1 (2018): 1-21. 2018  
DOI: <https://doi.org/10.1145/3191736>

Dimiccoli, Mariella, Juan Marín, and Edison Thomaz. "Mitigating bystander privacy concerns in egocentric activity recognition with deep learning and intentional image degradation." *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies* 1, no. 4 (2018): 1-18. 2018  
DOI: <https://doi.org/10.1145/3161190>

*Published in previous rank at UT*

Choe, Eun Kyoung, Saeed Abdullah, Mashfiqui Rabbi, Edison Thomaz, Daniel A. Epstein, Felicia Cordeiro, Matthew Kay et al. "Semi-automated tracking: a balanced approach for self-monitoring applications." *IEEE Pervasive Computing* 16, no. 1 (2017): 74-84. 2017  
DOI: <https://doi.org/10.1109/MPRV.2017.18>

## **B. Refereed Conference Proceedings**

*Currently under review/revision*

*Published in rank at UT*

Dawei Liang, Hang Su, Tarun Singh, Jay Mahadeokar, Shanil Puri, Jiedan Zhu, Edison Thomaz, Mike Seltzer. "Dynamic Speech Endpoint Detection with Regression Targets" *Proceedings of the 2022 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*  
DOI: <https://doi.org/10.1109/ICASSP49357.2023.10096595> 2023

Liang, Dawei, Radu Marculescu, Edison Thomaz. "AudioIMU: Enhancing Inertial Sensing-Based Activity Recognition with Acoustic Models." *Proceedings of the 2022 International Symposium on Wearable Computers (ISWC)*. 2022  
DOI: <https://doi.org/10.1145/3544794.3558471>

Yao, Xuewen, Megan Micheletti, Mckensey Johnson, Edison Thomaz, Kaya de Barbaro. "Infant Crying Detection in Real-World Environments." *Proceedings of the 2022 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*  
DOI: <https://doi.org/10.1109/ICASSP43922.2022.9746096> 2022

Liang, Dawei, Wenting Song, and Edison Thomaz. "Characterizing the Effect of Audio Degradation on Privacy Perception and Inference Performance in Audio-Based Human Activity Recognition." In *22nd Int. Conf. on Human-Computer Interaction with Mobile Devices and Services (MobileHCI)*, pp. 1-10. 2020.  
DOI: <https://doi.org/10.1145/3379503.3403551>

San Chun, Keum, Hyoyoung Jeong, Rebecca Adaimi, and Edison Thomaz. "Eating Episode Detection with Jawbone-Mounted Inertial Sensing." In *2020 42nd Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC)*, pp. 4361-4364. IEEE, 2020.  
DOI: <https://doi.org/10.1109/EMBC44109.2020.9175949>

Chun, Keum San, Sarnab Bhattacharya, Caroline Dolbear, Jordon Kashanchi, and Edison Thomaz. "Intraoral Temperature and Inertial Sensing in Automated Dietary Assessment: a Feasibility Study." In *Proceedings of the 2020 International Symposium on Wearable Computers (ISWC)*, pp. 27-31. 2020.  
DOI: <https://doi.org/10.1145/3410531.3414309>

Chun, Keum San, Ashley B. Sanders, Rebecca Adaimi, Necole Streeper, David E. Conroy, and Edison Thomaz. "Towards a generalizable method for detecting fluid intake with wrist-mounted sensors and adaptive segmentation." In *Proceedings of the 24th International Conference on Intelligent User Interfaces (IUI)*, pp. 80-85. 2019.  
DOI: <https://doi.org/10.1145/3301275.3302315>

*Published in previous rank at UT*

Adams, Roy, Nazir Saleheen, Edison Thomaz, Abhinav Parate, Santosh Kumar, and Benjamin Marlin. "Hierarchical Span-Based Conditional Random Fields for Labeling and Segmenting Events in Wearable Sensor Data Streams." In *International Conference on Machine Learning (ICML)*, pp. 334-343. PMLR, 2016.  
PMID: <https://pubmed.ncbi.nlm.nih.gov/28090606/>

*Published before joining UT*

Bedri, Abdelkareem, Apoorva Verlekar, Edison Thomaz, Valerie Avva, and Thad Starner. "Detecting Mastication: A Wearable Approach." In *Proceedings of the 2015 ACM on International Conference on Multimodal Interaction (ICMI)*, pp. 247-250. 2015.  
DOI: <https://doi.org/10.1145/2818346.2820767>



- Castro, Daniel, Steven Hickson, Vinay Bettadapura, Edison Thomaz, *Gregory Abowd*, Henrik Christensen, and *Irfan Essa*. "Predicting Daily Activities from Egocentric Images Using Deep Learning." In *Proceedings of the 2015 ACM International Symposium on Wearable Computers (ISWC)*, pp. 75-82. 2015.  
DOI: <https://doi.org/10.1145/2802083.2808398>
- Bedri, Abdelkareem, Apoorva Verlekar, Edison Thomaz, Valerie Avva, and Thad Starner. "A Wearable System for Detecting Eating Activities with Proximity Sensors in the Outer Ear." In *Proceedings of the 2015 ACM International Symposium on Wearable Computers (ISWC)*, pp. 91-92. 2015.  
DOI: <https://doi.org/10.1145/2802083.2808411>
- Thomaz, Edison, *Irfan Essa*, and *Gregory D. Abowd*. "A practical approach for recognizing eating moments with wrist-mounted inertial sensing." In *Proceedings of the 2015 ACM International Joint Conference on Pervasive and Ubiquitous Computing (Ubicomp)*, pp. 1029-1040. 2015.  
DOI: <https://doi.org/10.1145/2750858.2807545>
- Cordeiro, Felicia, Daniel A. Epstein, Edison Thomaz, Elizabeth Bales, Arvind K. Jagannathan, *Gregory D. Abowd*, and James Fogarty. "Barriers and negative nudges: Exploring challenges in food journaling." In *Proceedings of the 33rd Annual ACM Conference on Human Factors in Computing Systems*, pp. 1159-1162. 2015.  
DOI: <https://doi.org/10.1145/2702123.2702155>
- Thomaz, Edison, Cheng Zhang, *Irfan Essa*, and *Gregory D. Abowd*. "Inferring Meal Eating Activities in Real World Settings from Ambient Sounds: A Feasibility Study." In *Proceedings of the 20th International Conference on Intelligent User Interfaces*, pp. 427-431. 2015.  
DOI: <https://doi.org/10.1145/2678025.2701405>
- Bettadapura, Vinay, Edison Thomaz, Aman Parnami, *Gregory D. Abowd*, and *Irfan Essa*. "Leveraging Context to Support Automated Food Recognition in Restaurants." In *2015 IEEE Winter Conference on Applications of Computer Vision*, pp. 580-587. IEEE, 2015.  
DOI: <https://doi.org/10.1109/WACV.2015.83>
- Thomaz, Edison, Aman Parnami, *Irfan Essa*, and *Gregory D. Abowd*. "Feasibility of Identifying Eating Moments from First-Person Images Leveraging Human Computation." In *Proceedings of the 4th International SenseCam & Pervasive Imaging Conference*, pp. 26-33. 2013.  
DOI: <https://doi.org/10.1145/2526667.2526672>

- Thomaz, Edison, Aman Parnami, Jonathan Bidwell, *Irfan Essa, and Gregory D. Abowd*. "Technological Approaches for Addressing Privacy Concerns when Recognizing Eating Behaviors with Wearable Cameras." In *Proceedings of the 2013 ACM International Joint Conference on Pervasive and Ubiquitous Computing (Ubicomp)*, pp. 739-748. 2013.  
DOI: <https://doi.org/10.1145/2493432.2493509>
- Thomaz, Edison, Vinay Bettadapura, Gabriel Reyes, Megha Sandesh, Grant Schindler, Thomas Plötz, *Gregory D. Abowd, and Irfan Essa*. "Recognizing Water-Based Activities in the Home Through Infrastructure-Mediated Sensing." In *Proceedings of the 2012 ACM Conference on Ubiquitous Computing (Ubicomp)*, pp. 85-94. 2012.  
DOI: <https://doi.org/10.1145/2370216.2370230>

### C. Other Publications

*Published in rank at UT*

- Liang, Dawei, Zifan Xu, Yinuo Chen, Rebecca Adaimi, David Harwath, Edison Thomaz. "A Dataset for Foreground Speech Analysis with Smartwatches in Everyday Home Environments". In *Proceedings of the 2023 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) Satellite Workshop: Ambient AI: Multimodal Wearable Sensor Understanding*.  
DOI: <https://doi.org/10.18738/T8/IKWZPW>
- Mohamed, Abdullah, Fernando Lejarza, Stephanie Cahail, Christian Claudel and Edison Thomaz. "HAR-GCNN: Deep Graph CNNs for Human Activity Recognition From Highly Unlabeled Mobile Sensor Data". In *2022 IEEE International Conference on Pervasive Computing and Communications Workshops (CoMoRea PerCom Workshop)*.  
DOI: <https://doi.org/10.1109/PerComWorkshops53856.2022.9767342>
- Thomaz, Edison. "Activiome: A System for Annotating First-Person Photos and Multimodal Activity Sensor Data." In *2020 IEEE International Conference on Pervasive Computing and Communications Workshops (PerCom Workshops)*, pp. 1-6. IEEE, 2020.  
DOI: <https://doi.org/10.1109/PerComWorkshops48775.2020.9156161>
- Adaimi, Rebecca, Ka Tai Ho, and Edison Thomaz. "Usability of a Hands-Free Voice Input Interface for Ecological Momentary Assessment." In *2020 IEEE International Conference on Pervasive Computing and Communications Workshops (PerCom Workshops)*, pp. 1-5. IEEE, 2020.  
DOI: <https://doi.org/10.1109/PerComWorkshops48775.2020.9156226>

Ashley West, Necole Streeper, Edison Thomaz, David Conroy. "Use of SipIT Intervention to Reduce Common Perceived Barriers to Increasing Fluid Intake among Adult Patients with Kidney Stones." In *Society for Behavioral Medicine Symposium 2020* (Conference Cancelled) 2020  
DOI: <https://doi.org/10.1097/JU.0000000000000898.08>

Necole Streeper, Deborah Brunke-Reese, Edison Thomaz, Ashley Sanders, David Conroy. "SipIT: A Digital Health Just-in-Time Intervention to Increase Fluid Consumption Habits among Patients with Kidney Stones." In *World Congress of Endourology 2019* (Poster) 2019

Necole Streeper, Edison Thomaz, Ashley Sanders, A. Dubnansky, David Conroy. "Protocol to Develop a Digital Biomarker to Detect Drinking Behavior among Patients with Kidney Stones Using Wrist-Worn Inertial Sensor." In *American Urological Association Annual Meeting 2019* (Poster) 2019  
DOI: <https://doi.org/10.1097/01.JU.0000555196.39410.3c>

*Published in previous rank at UT*

Thomaz, Edison, Abdelkareem Bedri, Temiloluwa Prioleau, *Irfan Essa, and Gregory D. Abowd*. "Exploring Symmetric and Asymmetric Bimanual Eating Detection with Inertial Sensors on the Wrist." In *Proceedings of the 1st Workshop on Digital Biomarkers*, pp. 21-26. 2017.  
DOI: <https://doi.org/10.1145/3089341.3089345>

*Published before joining UT*

Thomaz, Edison. "Sequencing the Dietary Exposome with Semi-Automated Food Journaling Techniques." In *Human Computer Interaction Conference (HCIC) 2013* 2013

Thomaz, Edison. "A Human-Centered Conceptual Model for Personal Health Informatics Data." In *CHI 2013 Workshop Personal Informatics in the Wild: Hacking Habits for Health & Happiness*. 2013. 2013

Thomaz, Edison, Thomas Ploetz, *Irfan Essa, Gregory D. Abowd*. "Hydrostream: A Platform for Collecting, Annotating and Analyzing Water Pressure for Health Applications." In *CHI 2012 Workshop Personal Informatics in Practice Workshop*. 2012. 2012

Thomaz, Edison, Thomas Plötz, *Irfan Essa, and Gregory D. Abowd*. "Interactive Techniques for Labeling Activities of Daily Living to Assist Machine Learning." In *Proceedings of Workshop on Interactive Systems in Healthcare*. 2011. 2011

**D. Books, Chapters of Books; Editor of Books (*identify your role, i.e. author, editor*)**

*Currently under review/revision*

Dimiccoli, Mariella, Edison Thomaz. "Acquisition and Analysis of Camera Sensor Data (Life Logging)". Mobile Sensing in Psychology: Methods and Applications. (Chapter Co-author)

*Published in rank at UT*

Vaid, Sumer, Saeed Abdullah, Edison Thomaz, Gabriella Harari. "Ubiquitous Computing for Person-Environment Research: Opportunities, Considerations, and Future Directions". Measuring and Modeling Persons and Situations, Elsevier, 2021. 2021.  
DOI: <https://doi.org/10.1016/B978-0-12-819200-9.00020-X>

*Published in previous rank at UT*

Thomaz, Edison, *Irfan Essa*, *Gregory D. Abowd*. "Challenges and Opportunities in Automated Detection of Eating Activity". Mobile Health, pp. 151-174. Springer, Cham, 2017. 2017  
DOI: [https://doi.org/10.1007/978-3-319-51394-2\\_9](https://doi.org/10.1007/978-3-319-51394-2_9)

## **E. Reviews**

N/A

## **F. Technical Reports**

*Published in rank at UT*

Bhattacharya, Sarnab, Keum San Chun, and Edison Thomaz. "MagSurface: Wireless 2D Finger Tracking Leveraging Magnetic Fields." *arXiv:2105.00543* (2021). 2021

## **G. Media Highlights**

N/A

## **ORAL PRESENTATIONS:**

Samsung Research America SMI-lab, Plano, TX 2023  
Conference on Advances in Data Science, Texas A&M 2022  
Centre for Mobile and Wearable Systems Seminar Series, University of Cambridge 2021  
Colloquium, Center for Health Monitoring and Intervention, Univ. of Rhode Island 2021  
COMOREA Workshop (Keynote), IEEE PerCom 2020

Quarterly Research Series, Women's Health, Dell Medical School, UT Austin	2020
Potential Collaboration Pathways Panel, Dell Medical School, UT Austin	2018
Ambulatory Assessment Workshop, UT Austin	2018
Fostering Resilience Symposium, UT Austin	2018
UCSD COREethics Webinar, UCSD	2018
NSF Smart and Connected Health Workshop (Keynote), UT Austin	2018
ECE Seminar, Dept. of Electrical and Computer Engineering, UT Austin	2018
Automatic Dietary Monitoring Workshop, IEEE Body Sensor Networks (BSN)	2018
NSF Smart and Connected Health Workshop (Keynote), UT Tyler	2017
Colloquium, Dept. of Psychology, UT Austin	2016
Colloquium, School of Information, UT Austin	2016
NSF College Student Health Workshop, Northwestern University	2015
Intel ISTC-PC Annual Meeting, Portland, OR	2015
ECE Seminar, Dept. of Electrical and Computer Engineering, UT Austin	2015
CSE Seminar, Computer Science and Engineering, UCSD	2015
IC Seminar, School of Interactive Computing, Georgia Tech	2015
Seminar, People-Aware Computing Group, Cornell University	2014
Seminar, Math and Computer Science Department Seminar, Emory University	2013
Computational Social Science Workshop, Georgia Tech	2013
Humana C3 Talk, Louisville, KY	2011
Georgia Gerontology Annual Conference, Athens, GA	2011
Georgia Tech GVU/CDC Workshop, Atlanta, GA	2011
Aware Home Seminar, Georgia Tech	2011
Modeling and Retrieval of Context Workshop (Keynote), AAAI Conference	2006

**PATENTS:**

## A. Patents Issued

N/A

## B. Patent Applications

Detecting Inter-Person Conversations Using a Smart Wearable Device Application #63/521,852	UT Austin	2023
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## C. Invention Disclosures

Detecting Inter-Person Conversations Using a Smart Wearable Device	UT Austin	2023
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**PH.D. SUPERVISIONS COMPLETED:**

Adaimi, Rebecca	“Towards Lifelong and Long-Term Sensor-based Human Activity Recognition”	07/2023	Electrical and Computer Engineering	UT Austin
Yao, Xuewen (Co-advised with Dr. de Barbaro, UT Psychology)	“Leveraging Pervasive Data to Study and Support Mother-Infant Dyads in the Wild”	05/2023	Electrical and Computer Engineering	UT Austin
Chun, Keum San	“Small-Scale Wireless Sensors for Automated Dietary Monitoring”	05/2021	Electrical and Computer Engineering	UT Austin

**M.S. SUPERVISIONS COMPLETED:**

Lightfoot, Jackson	“Deep Affective Computing with Short Segment ECG”	12/2022	Electrical and Computer Engineering	UT Austin
Pham, Jessica	“Developing the Whole Communities–Whole Health App known as Hornsense: An Experience Report”	05/2022	Electrical and Computer Engineering	UT Austin
Gong, Yifan	“Enhancing Touch Interactions with Passive Finger Acoustics”	05/2019	School of Information	UT Austin

**PH.D. IN PROGRESS:**

## A. Students admitted to candidacy

Liang, Dawei (Fall 2022)

Khante, Priyanka (Spring 2021) – Co-advised with Dr. de Barbaro (UT Psychology)

## B. Post M.S. students preparing to take Ph.D. qualifying exam

## C. Pre M.S. students

Shen, Yufei (Started Fall 2022)

Zhang, Alice (Started Fall 2022)

Shrestha, Sloke (Started Fall 2022)

Gudur, Gautham (Starting Fall 2023)

**M.S. IN PROGRESS:**

N/A

**PH.D. COMMITTEES:**

Chang, Mai Lee	ECE	UT Austin	Completed 2022
Mohamed, Abdulllah	ECE	UT Austin	Completed 2022
Mirtchouk, Mark	CS	Stevens Institute of Technology	Completed 2022
Bedri, Abdelkareem	CS	Carnegie Mellon University	Completed 2021
Motro, Michael	ECE	UT Austin	Completed 2019
Chen, Yimin	ME	UT Austin	Completed 2019
Khan, Talha	ECE	UT Austin	Completed 2017
Zheng, Yi	ME	UT Austin	In Progress
Cao, Beiming	ECE	UT Austin	In Progress
Lofti, Ali	ECE	UT Austin	Completed 2022
Shang, Zaixi	ECE	UT Austin	Completed 2023
Chang, Kai Chih	ECE	UT Austin	In Progress
Dreifuerst, Ryan	ECE	UT Austin	In Progress
Annaluru, Ramakrishna	ECE	UT Austin	In Progress
Lee, Grace	ECE	UT Austin	In Progress
Bhattacharya, Sarnab	ECE	UT Austin	In Progress
Chen, Hsiao-Yuan	ECE	UT Austin	In Progress

**M.S. COMMITTEES:**

Saputra, Yosef	ECE	UT Austin	Completed 2019
Niu, Haoran	ECE	UT Austin	Completed 2022
Lightfoot, Jackson	ECE	UT Austin	Completed 2022
Pham, Jessica	ECE	UT Austin	Completed 2022

**UNDERGRADUATE RESEARCH:**

Bhattacharya, Ayush	ECE	UT Austin	In Progress
Romero, Julia	ECE	UT Austin	Spring 2020
Shah, Malav	ECE	UT Austin	Spring 2019
Yong, Howard	ECE	UT Austin	Spring 2019
Zhang, Jason	ECE	UT Austin	Fall 2018

**MENTORSHIP:**

Adkins, Amanda	CS	Society for Advancing Gender Equity in STEM's (SAGES) - UT Austin	Completed 2022
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**VITA:** *(One-half page paragraph that can be used for general purposes)*

Edison Thomaz is an Assistant Professor and Texas Instruments/Kilby Fellow in the Department of Electrical and Computer Engineering at The University of Texas at Austin, where he directs the Human Signals laboratory. His research focuses on the computational perception of human signals (e.g., behavioral, emotional, physiological) while leveraging ubiquitous and wearable sensing. A core area of interest is studying systems and methods for recognizing and modeling the entire span of people's everyday activities and context. This work intersects with several disciplines, from ubiquitous computing and HCI to human-centered machine learning and signal processing. Prof. Thomaz is particularly motivated by applications in the domain of health and personalized medicine such as building health models and tools that can characterize and forecast various states of health and disease from sensor data. At UT Austin, he is a member of the DICE, SES, and bioECE tracks, and is a member of the Wireless Networking and Communications Group (WNCG). He is an associate editor on the ACM Proceedings on Interactive, Mobile, Wearable and Ubiquitous Technologies (PACM IMWUT), and serves on numerous program and organizing committees for both ACM and IEEE conferences (e.g., Pervasive Health, CHI, ISWC). Additionally, he co-directs the Life Sensing Consortium (LSC), a multi-disciplinary, multi-university collaborative network of researchers who use sensing technologies to conduct interdisciplinary sensing research to promote positive life outcomes. Prior to his Ph.D., Prof. Thomaz held industry positions at Microsoft and France Telecom. He holds a bachelor's degree in Computer Science from UT Austin, a master's from the MIT Media Lab and a Ph.D. in Human-Centered Computing from Georgia Tech.