

Omer T. Inan, PhD

Linda J. and Mark C. Smith Chair in Bioscience and Bioengineering

Professor, School of Electrical and Computer Engineering
Adjunct Professor, Wallace Coulter Department of Biomedical Engineering
Georgia Institute of Technology, Atlanta, GA
e-mail: inan@gatech.edu • cell: 650-776-9018 • web: irl.gatech.edu

Earned Degrees

Ph.D.	Electrical Engineering	Stanford University, Stanford, CA	Sep 2009
M.S.	Electrical Engineering	Stanford University, Stanford, CA	Apr 2005
B.S.	Electrical Engineering	Stanford University, Stanford, CA	Apr 2004

Employment History

Linda J. and Mark C. Smith Chair	Georgia Tech, School of Elect. and Comp. Eng. (ECE)	2021-present
Professor	Georgia Tech, School of ECE	2022-present
Adjunct Professor	Georgia Tech, Coulter Dept. of Biomedical Engineering	2022-present
Program Faculty	Georgia Tech, Bioengineering Graduate Program	2013-present
Associate Professor	Georgia Tech, School of ECE	2018-2022
Adjunct Associate Professor	Georgia Tech, Coulter Dept. of Biomedical Engineering	2018-2022
Assistant Professor	Georgia Tech, School of ECE	2013-2018
Adjunct Assistant Professor	Georgia Tech, Coulter Dept. of Biomedical Engineering	2015-2018
Visiting Scholar	Stanford University, Department of EE	2009-2013
Chief Engineer	Countryman Associates, Inc.	2009-2013
Education Associate	NASA Ames Research Center, Biomodel Perform. Lab	2008
Research Assistant	Stanford University, Department of EE	2008-2009
Senior Design Engineer	Countryman Associates, Inc.	2007-2009
Intern/Co-Op	ALZA Corporation, A Johnson & Johnson Co.	2006-2007

Honors and Awards

International or National Awards

Elected Fellow, American Institute for Medical and Biological Engineering (AIMBE)	2022
Academy Award for Technical Achievement, Academy of Motion Picture Arts and Sciences	2021
Invited Participant, National Academies of Science, Engineering in Medicine Arab America Frontiers Symposium	2021
Invited Participant, National Academy of Medicine International Workshop on Science & Technology for Health Longevity	2021
<i>IEEE Sensors Journal</i> Best Paper Award Runner-Up	2021
Invited Participant, National Academy of Engineering China-America Frontiers of Engineering	2019
Third Place, IEEE Engineering in Medicine and Biology Society Prize Paper Award	2019
Runner-Up, Best Poster Award Competition, <i>IEEE Biomedical and Health Informatics Conference</i>	2019
Office of Naval Research Young Investigator Award (ONR YIP)	2018
National Science Foundation CAREER Award (NSF CAREER)	2018
IEEE Sensors Council Young Professional Award	2018
Runner-Up, Best Paper Award Competition, <i>IEEE Body Sensor Networks Conference</i>	2018
Nominated, National Academy of Engineering's Frontiers of Engineering Symposium	2015, '16
Senior Member, Institute for Electrical and Electronics Engineers (IEEE)	2015
NASA Ames Research Center Tech Briefs Award	2011
Three-Time NCAA All-American, Track and Field	2001-'03

Institute or School Awards

Outstanding Doctoral Thesis Advisor Award, Georgia Tech	2021
Student Recognition of Excellence in Teaching Class of 1934 CIOS Honor Roll Award	2020

Richard M. Bass / Eta Kappa Nu Outstanding Teacher Award, Georgia Tech	2019
Georgia Power Professor of Excellence, Georgia Tech	2019
Roger Webb ECE Outstanding Junior Faculty Member Award, Georgia Tech	2018
Sigma Xi Young Faculty Award, Georgia Tech	2017
Georgia Tech Class of 1969 Teaching Fellow	2016-'17
Lockheed Dean's Excellence in Teaching Award, Georgia Tech	2016
G. J. Lieberman Fellowship, Stanford University	2008-'09
Stanford Track and Field Team Co-Captain	2002-'03

Selected Examples of Research Impact

- Patents (12 issued) licensed for commercialization by start-ups and multinational corporations.
- Publications cited >7,000 times with an h-index of 40 (Google Scholar, 12/5/2022).
- Multiple papers recognized through feature articles, editor's picks, best poster / paper awards.
- Invitation by NIH leadership to demonstrate technologies to US Congressional Staffers.
- Invitation to co-lead a cross-agency (NSF, NIH, FDA) workshop on the future of clinical trials.
- Invitation to participate in multiple events hosted by the National Academies.
- Editorial board member for four international journals (including three IEEE EMBS journals), and technical editor, program committee member, or technical committee member for multiple international conferences (including Technical Editor for the BHI Theme of IEEE EMBC).
- Invited speaker for dozens of conferences, seminar series and government / industry events.
- Start-up co-founded with PhD student alumnus to commercialize research (Cardiosense, Inc.) raised \$15MM Series A and received FDA Breakthrough Designation.

Five Best Research Products (of 155 total journal and 163 conference papers)

1. **O. T. Inan**, A. Q. Javaid, S. Dowling, M. Etemadi, A. Dorier, J. A. Heller, A. O. Bicen, S. Roy, T. De Marco, and L. Klein, "Novel Wearable Seismocardiography and Machine Learning Algorithms Can Assess Clinical Status of Heart Failure Patients," *Circulation: Heart Failure*, v. 11, no. 1, pp. 1-10, 2018. **(Journal IF: 6.3. Featured on the cover of the journal, and as an "Editor's Pick" for the January 2018 issue.)**
2. †J. Zia, †J. Kimball, C. Rolfes, J.-O. Hahn, and **O. T. Inan**, "Enabling the Assessment of Trauma-Induced Hemorrhage via Smart Wearable Systems," *Science Advances*, v. 6, no. 30, p. 1-11, 2020. **(Journal IF: 12.8.)**
3. N. Z. Gurel, M. Huang, M. T. Wittbrodt, H. Jung, S. L. Ladd, M. M. H. Shandhi, Y.-A. Ko, L. Shallenberger, J. A. Nye, B. Pearce, V. Vaccarino, A. J. Shah, J. D. Bremner, and **O. T. Inan**, "Quantifying Acute Physiological Biomarkers of Transcutaneous Cervical Vagal Nerve Stimulation in the Context of Psychological Stress," *Brain Stimulation*, In Press. **(Journal IF: 6.9. Acceptance Rate: < 10%.)**
4. C. N. Teague, S. Hersek, H. Toreyin, M. L. Millard-Stafford, M. L. Jones, G. F. Kogler, M. N. Sawka, and **O. T. Inan**, "Novel Methods for Sensing Acoustical Emissions from the Knee for Wearable Joint Health Assessment," *IEEE TBME*, v. 63, no. 8, pp. 1581-1590, 2016. **(This article was featured by IEEE TBME on the website homepage and in the newsletter, was one of the top 10 most downloaded papers in TBME for 2016, and was featured in the IEEE EMBS newsletter.)**
5. **O. T. Inan**, P.-F. Migeotte, K.-S. Park, M. Etemadi, K. Tavakolian, J. M. Zanetti, I. Funtova, J. Tank, G. K. Prisk, and M. Di Rienzo, "Ballistocardiography and seismocardiography: A review of recent advances," *IEEE JBHI*, v. 19, no. 4, pp. 1414-1427, 2015. **(This paper has received >500 citations.)**

Industry / Start-Up Experience

2020-present	Co-Founder, Chief Scientific Advisor, Board Member, Cardiosense, Inc.
2013-present	Scientific Advisor, Physiowave, Inc.
2013-present	Consultant to more than a dozen companies / start-ups
2009-2013	Chief Engineer (CTO), Countryman Associates, Inc., Menlo Park, CA

Selected Grants & Contracts (of 48 total as PI, \$33.5MM total funding)

CAREER: Wearable Joint Sounds Sensing for Children with Juvenile Idiopathic Arthritis, NSF 1749677.
 Noninvasive Biosensors to Detect Cardiovascular Changes in Heart Failure Patients, NIH R01HL130619.