Omer T. Inan, PhD

Associate Professor ● Electrical & Computer Engineering ● Georgia Institute of Technology
Last Updated 2/3/2021

Education

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

Positions

2018-present	Associate Professor, Electrical and Computer Engineering, Georgia Tech
2018-present	Adjunct Associate Professor, Biomedical Engineering, Georgia Tech
2013-present	Program Faculty, Bioengineering Graduate Program, Georgia Tech
2013-2018	Assistant Professor, Electrical and Computer Engineering, Georgia Tech
2015-2018	Adjunct Assistant Professor, Biomedical Engineering, Georgia Tech
2009-2013	Visiting Scholar, Electrical Engineering, Stanford University
2009-2013	Chief Engineer, Countryman Associates Inc.
2009-2012	Collaborator, NASA Ames Research Center
2006-2007	Intern/Co-Op, ALZA Corporation (A Johnson & Johnson Co.)

Selected Honors & Awards

2021	Academy Award for Technical Achievement, American Academy of Motion Picture Arts and Sciences (Oscars)
2019	Invited Participant, National Academy of Engineering China-America Frontiers of Engineering Symposium (NAE CA-FOE)
2019	Runner-Up, Best Poster Award, *IEEE Biomedical & Health Informatics Conf.*
2019	Richard M. Bass / Eta Kappa Nu Outstanding Teacher Award, Georgia Tech
2018	IEEE Sensors Council Early Career Award
2018	Office of Naval Research Young Investigator Award (ONR YIP)
2018	National Science Foundation CAREER Award
2018	Roger P. Webb ECE Outstanding Junior Faculty Member Award, Georgia Tech
2018	Runner-Up, Best Paper Award, *IEEE Body Sensor Networks Conference*
2017	Sigma Xi Young Faculty Award, Georgia Tech
2016	Lockheed Dean's Excellence in Teaching Award, Georgia Tech
2015, 2016	Nominated, National Academy of Engineering, Frontiers of Engineering
2015	Senior Member, IEEE
2008-2009	Gerald J. Lieberman Fellowship, Stanford University

Selected Examples of Research Impact

Patents (of 7 issued, 15 pending) licensed by start-ups and large companies for commercialization.

Start-up co-founded with graduated PhD student to commercialize research (Cardiosense, Inc.).

Invitation by NIH leadership to demonstrate technologies to US Congressional Staffers.

Invitation to lead a cross-agency (NSF, NIH, FDA) workshop on the future of clinical trials.

Editorial board member for three international journals, and technical editor, program committee member, or technical committee member for multiple international conferences.

Invited speaker for dozens of conferences, seminar series, and government / industry events.

Five Best Research Products (of 112 journal and 119 conference papers)

Publications cited a total of 4,452 times, with an h-index of 31 (Google Scholar).

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. This work was 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 Transactions on Biomedical Engineering,* v. 63, no. 8, pp. 1581-1590, 2016. **(This article was featured by *IEEE TBME* on the website homepage and in the newsletter and the *IEEE EMB Society* 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 Journal of Biomedical and Health Informatics,* v. 19, no. 4, pp. 1414-1427, 2015. **(This paper has received 399 citations.)**

Industry / Start-Up Experience

2020-present	Co-Founder and Scientific Advisor to 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 35 total as PI, $32.1MM total funding)

CAREER: Wearable Joint Sounds Sensing for Children with Juvenile Idiopathic Arthritis, NSF (CBET) Grant 1749677.

Noninvasive Biosensors to Detect Cardiovascular Changes in Heart Failure Patients (PI), NIH (NHLBI), Grant R01HL130619.

Closed-Loop Vagal Nerve Stimulation for Post-Traumatic Stress Disorder Patients (Co-PI), DARPA BTO, Cooperative Agreement N66001-16-2-4054.

Student Guidance

Currently advising or co-advising 2 postdoctoral fellows, 23 PhD students, and 3 MS students at Georgia Tech. Graduated 16 PhD students and 7 MS students. Four students have since started in faculty positions at leading universities (Cornell, Texas A&M, NCSU, Koc University).