

# GOOD SYSTEMS



## Fiscal Years 2022 and 2023 Biennial Report



The University of Texas at Austin  
Research Development  
Vice President for Research, Scholarship  
and Creative Endeavors

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## **Designing AI technologies that benefit society is our grand challenge.**

Artificial intelligence is increasingly ubiquitous, from search engines and image generation to the most advanced military weapons systems. Yet AI technologies have the capacity to be harmful in ways we might not predict. Good Systems is a research initiative that seeks to design AI technologies alongside broader policy and decision-making systems that can protect and improve our world. Our interdisciplinary campus-wide research effort brings together humanists, social scientists, and technologists to investigate how to define, evaluate, and build values-driven AI systems that will transform society for the better.

# Good Systems Highlights In Numbers

## EXPANDING NETWORKS

- 121** active researchers
- 31** UT departments & disciplines
- 12** schools & colleges
- 45** external partners
- 50** hosted events over the past 2 years

## ENGAGING STUDENTS

**55** undergraduate & graduate student researchers

## SCHOLARLY OUTPUT & PUBLICITY

- 71** scholarly works acknowledging Good Systems support published over the past 2 years
- 44** news articles over the past 2 years

## BUILDING CAPACITY

**\$18.2** awarded in external funding to date

## Program Achievements

In FY22 and FY23, Good Systems continued to build on the work of its first two years. Good Systems' six multi-year **core research projects** made progress in defining, evaluating, and building ethical AI systems to combat mis- and disinformation, build smarter cities, balance privacy and surveillance, mitigate racial biases, create human-robot partnerships, and improve worker safety and well-being.

In addition, Good Systems expanded its network for cross-sector collaboration and research innovation, strengthening ties with the City of Austin and Austin Community College, and developing new national and international partnerships with **MITRE** and the **Trustworthy Autonomous Systems Hub**, among others. Researchers shared results at Good Systems' second and third annual symposium, which engaged students, faculty, and staff at The University of Texas at Austin as well as local government, nonprofit, and industry partners.

### Melding with MITRE

In FY22, Good Systems formed a **partnership with the MITRE Corporation**, a nonprofit dedicated to solving problems for a safer world. MITRE's investment in Good Systems supported capacity building across the six core research areas by expanding Good Systems' team expertise and supporting a greater number of faculty members, researchers, and students to engage in this work.

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*“As consequential use of AI increases, it is vital that we address safety, security and equity concerns. We are thrilled to be working with UT Austin and Good Systems to advance the underlying science in these areas that will enable us to build AI systems that can reach their full potential.”*

*—Douglas Robbins, vice president of engineering and prototyping at MITRE Labs*

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Workshop participants identify potential projects. Credit: Stacey Ingram Kaleh.

## Good Systems and MITRE Collaborative Engagement Workshop

In April 2023, **Good Systems and MITRE researchers convened at UT Austin** to build relationships, identify cross-organizational research projects, and develop action plans for continued collaboration. The two-day workshop resulted in more than 150 project ideas, 32 of which had enough interest and excitement from participants to advance to the next stage and be grouped into six themes: 1) privacy and data standards; 2) smart cities; 3) disinformation; 4) robots; 5) smart tools and the future of work; and 6) digital twin infrastructure.

Participants signed up to work on the projects they were most passionate about. In total, nine projects advanced, and the new cross-organizational teams developed action plans that included research goals, a funding strategy, audiences and stakeholders, and a plan for working together as a team.





Officials from the City of Austin, The University of Texas at Austin, and nonprofit Jail to Jobs cut the ribbon to inaugurate the Georgian Acres Community Hub for Smart Mobility on East Wonsley Drive. Photo courtesy of Austin Transportation.

## Planting Transportation Seeds in an Urban Desert

The NSF CIVIC funded project, “Co-creating a Community Hub for Smart Mobility: A University-Government-Nonprofit Partnership”—led by Junfeng Jiao (School of Architecture), Devrim Ikizler (Economics), Sherri Greenberg (LBJ School), Kenneth Fleischmann (School of Information), and Jason JonMichael (City of Austin)—launched the **Georgian Acres Community Hub for Smart Mobility**. The project, which provides services in a neighborhood considered to be a transit desert, is a result of interdisciplinary collaborations formed through earlier Good Systems projects.

## Community-Embedded Robots

Through collaborative, interdisciplinary work on the **Living and Working with Robots project**, a team of Good Systems researchers, including partners at Huston-Tillotson University, was awarded an NSF Growing Convergence Research grant for their project “**Community-Embedded Robots: Understanding Sociotechnical Interactions with Long-term Autonomous Deployments.**”

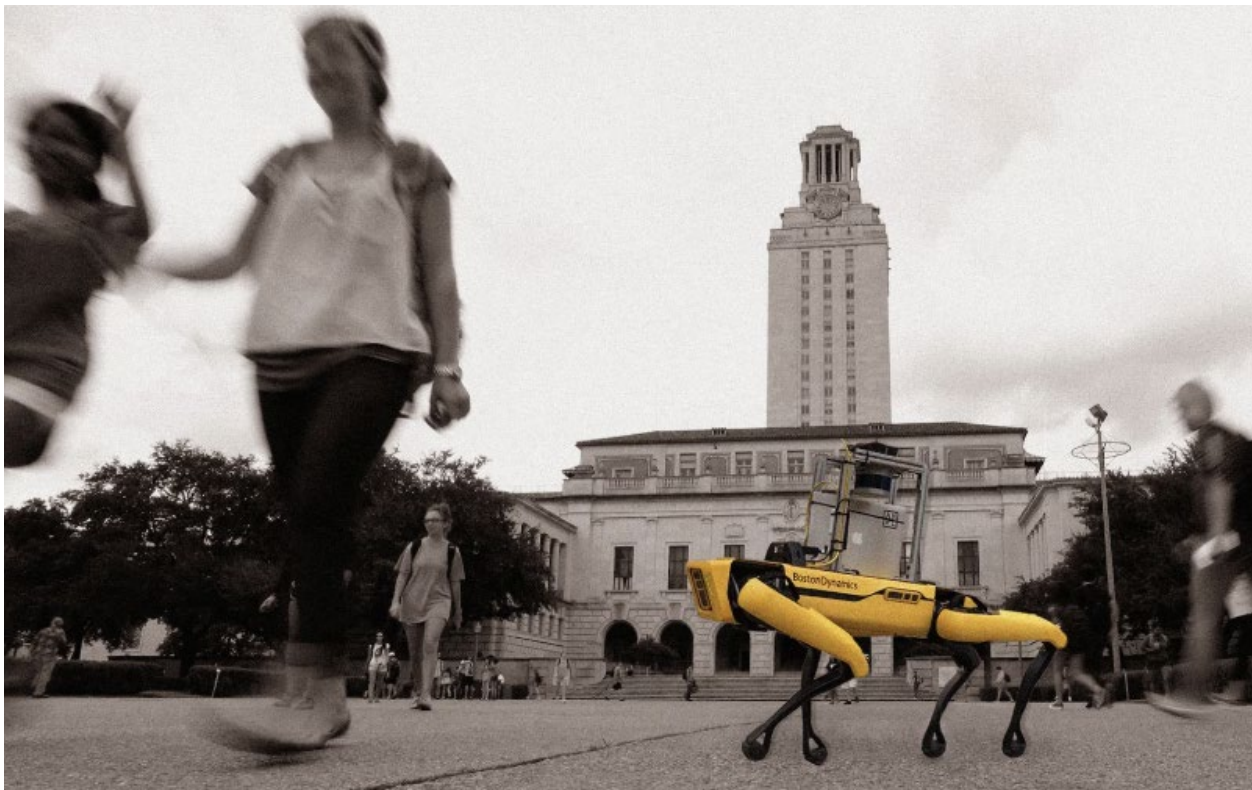
**The team will deploy a network of robots on UT’s campus** and study what it takes to create, safely operate, and maintain this kind of robot network, while also adapting with the humans who live and work around it. The project expands on Living and Working with Robots research and is led by Luis Sentis (Aerospace Engineering and Engineering Mechanics) and co-principal investigators Keri Stephens (Communication Studies), Joydeep Biswas (Computer Science), Elliott Hauser (School of Information), and Justin Hart (Computer Science).

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*“I think the most exciting thing about our project is we’re going to hopefully introduce more-ethical and safety-conscious ways for robots and people to work together,”*

*—Keri Stephens, project co-PI and co-director of UT’s Technology and Information Policy Institute*

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A “robot dog” on The University of Texas at Austin campus. Credit: Eric Gay/AP





*The 2023 Good Systems Symposium keynote speaker, Chad Jenkins, professor of robotics at the University of Michigan, sits down with Good Systems' Sharon Strover, professor in communication, to discuss the future of human-robot interaction. Credit: Lauren Gerson.*

## Shaping the Future of Ethical AI

Each spring, thought leaders across academic disciplines and industry, government, and nonprofit sectors convene at the University for **Good Systems' annual symposium** to discuss the opportunities and challenges when it comes to ensuring that AI systems are ethical, values-driven, and beneficial to everyone.

The **2022 event** featured a keynote on global social impact of AI in public health and conservation by **Milind Tambe** (Harvard University and Google Research India), panel discussions on smart cities and embedding ethics in AI development across industry, and presentations on findings from the first year of the six core research projects. Highlights of the **2023 program** included a keynote conversation with roboticist Chad Jenkins (University of Michigan), a panel of experts working across the globe to fuel cross-sector collaborations in Ethical AI and AI policy, and roundtables exploring the latest insights from Good Systems researchers and their partners. Both the 2022 and 2023 events also featured interactive poster sessions with Good Systems faculty and student researchers.

## Good Systems Contributes to Development of Two New Graduate Programs

One of Good Systems' goals is to increase UT's capacity for educating and training tomorrow's workforce in the design and use of artificial intelligence. To this end, Good Systems faculty contributed their expertise to the development and launch of two graduate school programs: the **Ethical AI Graduate Portfolio Program** and the online **Master of Science in Artificial Intelligence (MSAI)**.

The **Ethical AI Graduate Portfolio Program** is an interdisciplinary, socio-technical program for graduate students from all units across campus focused on anticipating and preparing for the complex interactions between AI-based technologies and society. The program, led by Junfeng Jiao (School of Architecture), was developed by Good Systems and Texas Robotics faculty, including Joydeep Biswas (Computer Science), Ken Fleischmann (School of Information), Justin Hart (Computer Science), Min Kyung Lee (School of Information), Tina Peterson (Computer Science), Luis Sentis (Aerospace Engineering and Engineering Mechanics), and Peter Stone (Computer Science), through the NSF-funded National Research Traineeship program.

The online **Master of Science in Artificial Intelligence (MSAI)**, delivered by the Department of Computer Science and Machine Learning Laboratory, incorporates formal AI ethics training developed in partnership with Good Systems. Ken Fleischmann (School of Information) developed the program's only required course, "Ethics in AI," and Junfeng Jiao (School of Architecture) developed the elective course "Case Studies in Machine Learning," which incorporates AI applications from his Good Systems research in the areas of housing, health, and transportation.

## A Trusted Authority on Ethical AI

With the widespread adoption of generative AI technologies such as OpenAI's ChatGPT, there has been an increased appetite among the general public for news that might help explain how technology should be integrated into society. UT faculty were called upon by local and national news media outlets to provide expert commentary on the future of AI. Good Systems faculty, researchers, and partners also shared their expertise with a wider audience through two panel presentations at South by Southwest, Austin's annual international tech, music, and arts showcase.

## Good Systems Headlines

### UT Austin News Coverage

- 7/20/2023 [Genes That Shape Bones Identified, Offering Clues About Our Past and Future](#)
- 2/7/2023 [UT announces launch of artificial intelligence master's program](#)
- 10/27/2022 [Robot dogs to roam campus as part of a UT research project](#)
- 10/17/2022 [Can Robots and Humans Co-exist in Public? UT Campus Study Will Offer Answers](#)
- 8/7/2022 [\\$1 million investment allows for ethical AI research at UT](#)
- 9/9/2021 [Ethical Artificial Intelligence is Focus of New Robotics Program](#)

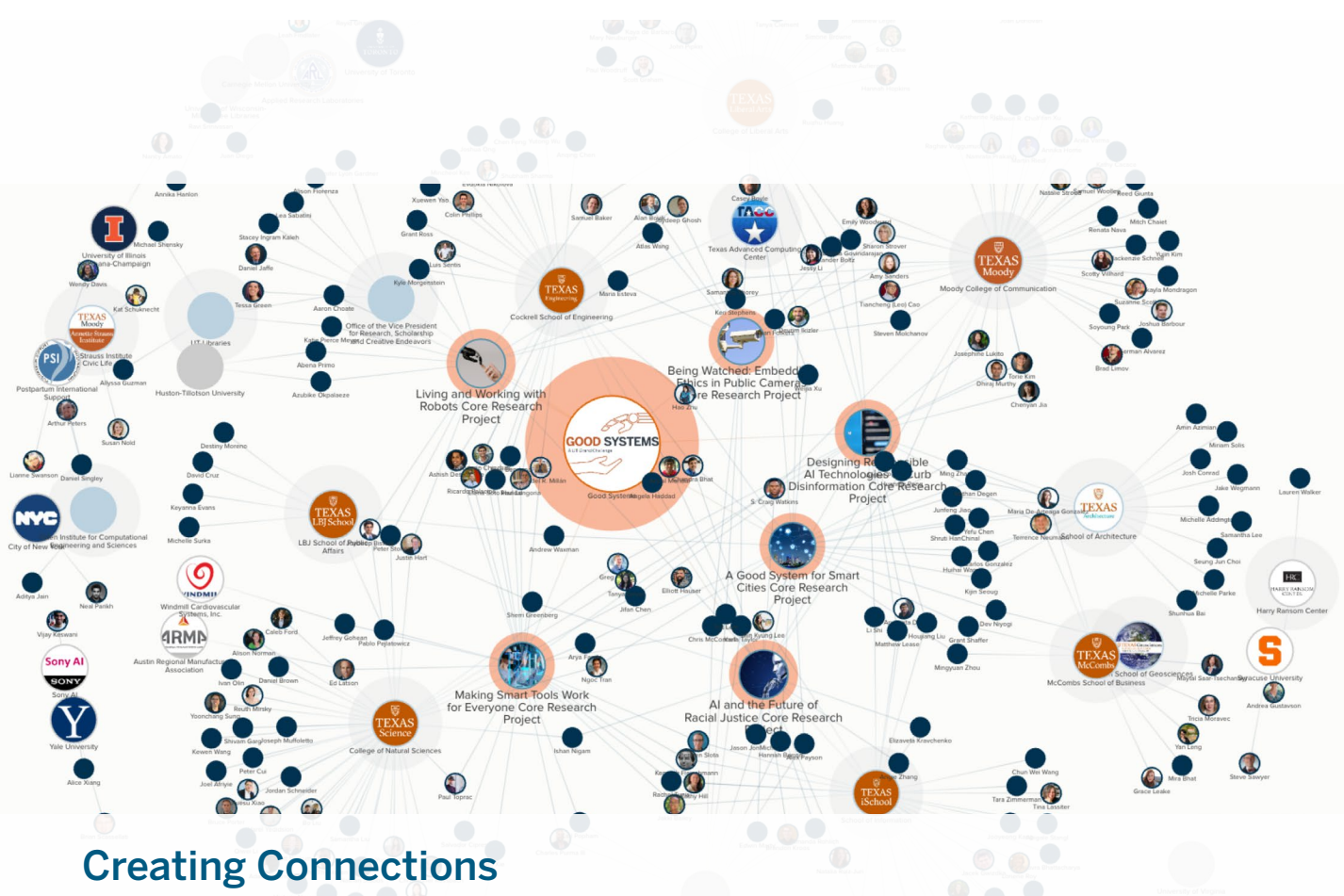
### External News Features and Mentions

- 8/21/2023 [Beware of the Robot Dog Next Door?](#)
- 8/14/2023 [UT Professors Embracing, Preparing for AI Use in Classrooms](#)
- 7/17/2023 [Austin Forum, Episode 57 - Making AI Good for Humans](#)
- 6/23/2023 [Memo to Washington: AI Needs Your Full Attention ... Now!](#)
- 5/3/2023 [AI project at UT Austin focuses on developing beneficial, ethical artificial intelligence](#)
- 4/14/2023 [UT Conference Explores Ethics Around the Breakneck Advancement of AI](#)
- 3/16/2023 [SXSW workshops and local organization working to find homelessness solutions](#)
- 3/10/2023 [Austin Scientists Focus on Helping AI Do Good](#)
- 3/2/2023 [Understanding the ethical future of AI](#)
- 1/26/2023 [AI Master's Program Launches with Ability to Serve Thousands](#)
- 10/27/2022 [It's Okay to Fear the Robot Dogs Coming to UT](#)
- 10/27/2022 [New dog-like delivery robots coming to University of Texas campus](#)
- 8/8/2022 [New Texas partnership aims to define ethics in artificial intelligence](#)
- 3/5/2022 [Challenging the Status Quo in Machine Learning](#)
- 1/13/2022 [4 Steps to Successful City-University Partnerships](#)
- 11/1/2021 [Designing AI for Racial Equity: Translating Ethics into Practice](#)
- 10/28/2021 [Passing The Torch; Good Systems Rolls Out Core Research Projects](#)
- 9/28/2021 [Building Equity in AI: Insights from The University of Texas and Microsoft](#)
- 9/22/2021 [New UT program puts focus on ethical AI, building robots to do 'helpful tasks'](#)
- 9/16/2021 [As AI Becomes Ubiquitous, There are Risks, Says New AI100 Report](#)

## UT OVPR Communications

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- 8/22/2023 **Speaking Generative AI Truth to Power**
  - 4/3/2023 **Positive Friction – An Interview with Sharon Strover**
  - 3/30/2023 **The Risk of Compounding Inequality**
  - 12/13/2022 **New Ethical AI Graduate Portfolio Program to Launch in 2023**
  - 12/12/2022 **Planting Transportation Seeds in An Urban Desert**
  - 11/9/2022 **Disinformation Day 2022 Considers Pressing Need for Cross-sector Collaboration and New Tools for Fact Checkers**
  - 11/11/2022 **Op-Ed: Social Media Platforms' Struggles with Misinformation and Racism: Challenges and Paths Forward**
  - 9/26/2022 **Changing of the Good Systems Chairs**
  - 8/30/2022 **Good Systems Partners with UKRI Trustworthy Autonomous Systems Hub to Support US-UK Research Innovation in Ethical Human-Machine Teaming**
  - 7/29/2022 **ACM Launches Journal on Responsible Computing with Dr. Ken Fleischmann as Editor-in-Chief**
  - 7/21/2022 **New Partnership Will Scale Up Investment in Ethical AI Research and Innovation**
  - 6/30/2022 **Highlights From the 2022 Good Systems Symposium**
  - 5/4/2022 **Good Systems Awards Summer Fellowships to Faculty, Researchers and Graduate Students**
  - 3/9/2022 **Good Systems Announces Summer Research Opportunities**
  - 3/11/2022 **Smart Cities Cannot Be Surveillance Cities**
  - 11/8/2021 **Bringing Robots into the Real World**
  - 10/28/2021 **An Algorithm for EMS Response**
  - 9/22/2021 **Mobility Hub Brings New Options to Northeast Austin 'Transit Desert'**





## Creating Connections

Good Systems' growing network of researchers draws from nearly every college and school on campus, from the Cockrell School of Engineering to the Colleges of Liberal Arts and Natural Sciences to the LBJ School of Public Affairs. This intellectual diversity is crucial to fostering interdisciplinary research, a key component of the program's success.

Collaborative partnerships extend beyond the University. Good Systems expanded its partnerships locally with the City of Austin, the Austin Forum on Technology and Society, Austin Community College, and others. Good Systems also forged new national and international partnerships with MITRE and the UKRI Trustworthy Autonomous Systems Hub that aim to spark creative, collaborative research that will translate into real-world solutions. At the project level, researchers expanded relationships with community groups such as the Austin Public Library and Measure, and fostered national and international relationships with organizations like Smart Cities Connect and the Open Data Institute. Two core research teams initiated advisory councils to facilitate ongoing dialogue with key stakeholders across sectors.

Explore the [interactive network map](#) to see how different researchers, schools, and organizations are connected to Good Systems. Search by name, College/School/Unit, or project, or click any node on the map and pause to see its connections appear. You can magnify or expand the view, and you can click on any individual to see which projects they've been affiliated with.



## Funded Grants

Through FY23, Good Systems researchers have received \$18.2 million in external grants, gifts, and awards that directly enable the grand challenge's work. External awards from the past two fiscal years are listed below. Many of these grant proposals were developed with the support of OVPR's Research Development team.

### **National Science Foundation**

*Community-embedded Robots: Understanding Sociotechnical Interactions with Long-term Autonomous Deployments*  
\$3,600,000  
Luis Sentis, Cockrell School of Engineering

### **National Science Foundation**

*Community-Driven Design of Urban Air Mobility Transportation Management Systems*  
\$1,054,998  
Min Kyung Lee, School of Information

### **MITRE**

*MITRE Gift*  
\$1,000,000  
Good Systems

### **Mellon Foundation**

*Strategic Directions to Support Infrastructure for Digital Special Collection*  
\$500,000  
Aaron Choate, UT Libraries

### **Open Philanthropy**

*Seeking Edits and Explanations from Users to Generate Long, Knowledge-Rich Texts*  
\$432,953  
Greg Durrett, College of Natural Sciences

### **U.S. Department of Transportation**

*University Transportation Center for Climate-Smart Transportation*  
\$400,014  
Junfeng Jiao, School of Architecture

### **Meta**

*UT Good Systems-Facebook AI Research Collaboration*  
\$250,000  
Peter Stone, College of Natural Sciences

### **National Science Foundation**

*Enabling Standards- and Disclosure-Based Regulations in and through Software Systems: Making Algorithmic Work Management Software Accountable to Law*  
\$249,999  
Min Kyung Lee, School of Information

### **MITRE**

*Co-Creating a Community Platform to Improve Services for People on the Homelessness Continuum*  
\$190,050  
Kenneth R. Fleischmann, School of Information

### **National Science Foundation**

*Artificial-Intelligence-Based Decision Support for Equitable Food and Nutrition Security*  
\$168,000  
Junfeng Jiao, School of Architecture

### **Sandia National Laboratories**

*Identifying Rhetorical Devices in Natural Language Models (in Russia-Generated Disinformation Narratives)*  
\$101,105  
Kiril Avramov, College of Liberal Arts

### **UKRI Trustworthy Autonomous Systems Hub**

*Doctor-centred Auditing of Healthcare AI With Testing of Fairness*  
\$72,470  
John Robert Bautista, School of Information

### **Amazon**

*Methods for Fair Detection of Toxic Language in Social Media*  
\$71,500  
Matt Lease, School of Information

### **National Science Foundation**

*Co-Creating a Community Platform to Improve Services for People on the Homelessness Continuum*  
\$50,000  
Sherri Greenberg, Lyndon B. Johnson School of Public Affairs

### **National Science Foundation**

*Empowering Southern Communities with a Smart Data Hub*  
\$49,865  
Arya Farahi, College of Natural Sciences

### **Microsoft Foundation**

*Urban Climate Resilience and Hyperlocal Sensing*  
\$25,000  
Junfeng Jiao, School of Architecture

### **National Science Foundation**

*Human-AI Teaming for Big Data Analytics to Enhance Response to COVID-19 Pandemic*  
\$20,262  
Keri Stephens, Moody College of Communication

### **UKRI Trustworthy Autonomous Systems Hub**

*TAME Pain: Trustworthy Assessment of Pain - Listening Between the Lines*  
\$18,150  
Arya Farahi, College of Natural Sciences

## Good Systems Partners

### Internal Affiliates

Ethics Unwrapped, McCombs School of Business  
Humanities Institute  
IC2 Institute  
Institute for Foundations of Machine Learning  
National Research Traineeship Program on Ethical AI  
Texas Robotics  
Visual Arts Center

McCombs Center for Analytics and Transformative Technologies  
UT Corporate Relations  
UT Foundation Relations  
University of Texas Libraries  
RGK Center for Philanthropy and Community Service  
Texas Student Media – The Drag

### External Affiliates

AI Now  
Austin Community College  
Austin Forum on Technology and Society  
Austin PBS - Decibel  
Austin Public Library  
Austin Regional Manufacturers Association  
Austin Transit Partnership  
CapMetro  
Carnegie Foundation for International Peace  
Carnegie Mellon Libraries  
Chequedo  
City of Austin  
City Science Lab, Hamburg  
DeepMind  
Digi.City  
Diligent Robotics  
Full Fact  
GirlStart  
Harvard Berkman Klein Center  
Huston-Tillotson University  
Innovation Bridge Europe  
Jail to Jobs  
Johns Hopkins University, Institute for Assured Autonomy

KUNGFU.AI  
Leadership Austin  
MEASURE  
Meedan  
MetroLab Network  
Microsoft  
Microsoft Research  
MIT  
MITRE  
North Carolina State, AI in Society  
Open Data Institute  
Public Interest Technology University Network  
Responsible AI UK  
Recognize Good  
Rutgers University Critical AI  
Smart Cities Connect  
Smart City Institute HEI  
Sony AI  
Trustworthy Autonomous Systems Hub  
Texas Tribune  
US Ignite  
World Economic Forum

## Publications

Good Systems researchers continued to make advancements through successful multi-disciplinary collaborations that enabled numerous transformative discoveries published in peer-reviewed articles in academic journals. Those from the past two fiscal years are listed below; nearly all are available online.

- Bhat, Mira R., Junfeng Jiao, and Amin Azimian. "The Impact of COVID-19 on Home Value in Major Texas Cities." *International Journal of Housing Markets and Analysis* (August 13, 2021).
- Bissiri, Anthony, Junfeng Jiao, and Yefu Chen. "A Scoping Review of the Benefits of Face Mask Use on Pedestrian and Bicyclist Exposure to Air Pollutants." *Journal of Transport & Health* 26 (September 2022): 101484.
- Chen, Jifan, Aniruddh Sriram, Eunsol Choi, and Greg Durrett. "Generating Literal and Implied Subquestions to Fact-Check Complex Claims." October 31, 2022.
- Chen, Yefu, and Junfeng Jiao. "Are There Transit Deserts in Europe? A Study Focusing on Four European Cases through Publicly Available Data." *Sustainability* 14, no. 20 (October 14, 2022): 13182.
- Chen, Yefu, Junfeng Jiao, and Arya Farahi. "Disparities in Affecting Factors of Housing Price: A Machine Learning Approach to the Effects of Housing Status, Public Transit, and Density Factors on Single-Family Housing Price." *Cities* 140 (September 2023): 104432.
- Cheng, Myra, Maria De-Arteaga, Lester Mackey, and Adam Tauman Kalai. "Social Norm Bias: Residual Harms of Fairness-Aware Algorithms." *Data Mining and Knowledge Discovery*, January 23, 2023.
- Choi, Seung Jun, Junfeng Jiao, Hye Kyung Lee, and Arya Farahi. "Combatting the Mismatch: Modeling Bike-Sharing Rental and Return Machine Learning Classification Forecast in Seoul, South Korea." *Journal of Transport Geography* 109 (May 2023): 103587.
- Chonkar, Parth, Geethika Hemkumar, Huihai Wang, Daksh Dua, Shikhar Gupta, Yao-Cheng Chan, Justin Hart, et al. "Look to My Lead: How Does a Leash Affect Perceptions of a Quadruped Robot?" In *Proceedings of the ICRA Workshop on Social Robot Navigation: Advances and Evaluation*. Philadelphia, PA, 2022.
- Clement, Tanya E., Andi Gustavson, Allyssa Guzman, Nathan Alexander Moore, and Lauren Walker. "Good Systems Humanist-in-the-Loop: Responsible Data Operations and Workforce Development in Libraries, Archives, and Museums," September 9, 2022.
- Cui, Jiaxun, Hang Qiu, Dian Chen, Peter Stone, and Yuke Zhu. "COOPERNAUT: End-to-End Driving with Cooperative Perception for Networked Vehicles," 2022.
- Das, Anubrata, Chitrang Gupta, Venelin Kovatchev, Matthew Lease, and Junyi Jessy Li. "ProtoTEx: Explaining Model Decisions with Prototype Tensors." April 11, 2022.
- Das, Anubrata, Chitrang Gupta, Venelin Kovatchev, Matthew Lease, and Junyi Jessy Li. "Explaining Model Decisions with Prototype Layers," ACL 2022.
- Das, Anubrata, Houjiang Liu, Venelin Kovatchev, and Matthew Lease. "The Need for Human-Centered Design in Fact-Checking Research," 2022.
- Das, Anubrata, Houjiang Liu, Venelin Kovatchev, and Matthew Lease. "The State of Human-Centered NLP Technology for Fact-Checking." *Information Processing & Management* 60, no. 2 (March 2023).
- De-Arteaga, Maria, Stefan Feuerriegel, and Maytal Saar-Tsechansky. "Algorithmic Fairness in Business Analytics: Directions for Research and Practice," *Productions and Operations Management*. 2022.
- Durugkar, Ishan, Scott Niekum, Mauricio Tec, and Peter Stone. "Adversarial Intrinsic Motivation for Reinforcement Learning." In *Proceedings of the 35th International Conference on Neural Information Processing Systems (NeurIPS 2021)*, 15. Sydney, Australia, 2021.
- Fazelpour, Sina, and Maria De-Arteaga. "Diversity in Sociotechnical Machine Learning Systems." *Big Data & Society* 9, no. 1 (January 2022).
- Govindarajan, Venkata S, Katherine Atwell, Barea Sinno, Malihe Alikhani, David I. Beaver, and Junyi Jessy Li. "Dimensions of Interpersonal Dynamics in Text: Group Membership and Fine-Grained Interpersonal Emotion," 2022.
- Goyal, Tanya, Junyi Jessy Li, and Greg Durrett. "News Summarization and Evaluation in the Era of GPT-3," 2022.\*

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- Gupta, Soumyajit, Sooyong Lee, Maria De-Arteaga, and Matthew Lease. “[Same Same, But Different: Conditional Multi-Task Learning for Demographic-Specific Toxicity Detection](#),” 2023.
- Haddad, Angela J., Aupal Mondal, Chandra R. Bhat, Angie Zhang, Madison C. Liao, Lisa J. Macias, Min Kyung Lee, and S. Craig Watkins. “[Pedestrian Crash Frequency: Unpacking the Effects of Contributing Factors and Racial Disparities](#).” *Accident Analysis & Prevention* 182 (March 1, 2023).
- Hauser, Elliott, Yao-Cheng Chan, Parth Chonkar, Geethika Hemkumar, Huihai Wang, Daksh Dua, Shikhar Gupta, et al. “[‘What’s That Robot Doing Here?’: Perceptions Of Incidental Encounters With Autonomous Quadruped Robots](#).” In Proceedings of the First International Symposium on Trustworthy Autonomous Systems, 1–15. Edinburgh United Kingdom: ACM, 2023.
- Hauser, Elliott. “[Facts in the Machine: Systems of Record and the Performance of Sociotechnical Truth](#).” *Journal of the Association for Information Science and Technology*, August 7, 2023, asi.24820.
- Hill, Katherine M., Rachel Tunis, Pablo M. Pejlatowicz, Kenneth R. Fleischmann, Sherri R. Greenberg, Raul G. Longoria, and Jose Bendana. “[Information Needs of Blue-Collar Workers: Welding Challenges and the Potential of Smart Welding Tools](#).” *Proceedings of the Association for Information Science and Technology* 59, no. 1 (October 2022): 431–36.
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- Holstein, Kenneth, Maria De-Arteaga, Lakshmi Tumati, and Yanghui Cheng. “[Toward Supporting Perceptual Complementarity in Human-AI Collaboration via Reflection on Unobservables](#),” 2022.
- Hong, Junyuan, Zhangyang Wang, and Jiayu Zhou. “[Dynamic Privacy Budget Allocation Improves Data Efficiency of Differentially Private Gradient Descent](#).” In 2022 ACM Conference on Fairness, Accountability, and Transparency, 11–35. Seoul Republic of Korea: ACM, 2022.
- Hu, Jiaheng, Peter Stone, and Roberto Martín-Martín. “[Causal Policy Gradient for Whole-Body Mobile Manipulation](#).” arXiv, May 11, 2023.
- Jia, Chenyan, Alex Boltz, Angie Zhang, Anqing Chen, and Min Kyung Lee. “[Understanding Effects of Algorithmic vs. Community Label on Perceived Accuracy of Hyper-Partisan Misinformation](#).” In Proceedings of the ACM: Human-Computer Interaction: Issue CSCW, April 2022.
- Jiao, Junfeng and Connor Phillips. “[Artificial Intelligence & Smart City Ethics: A Systematic Review](#).” Paper presented at 2023 IEEE International Symposium on Ethics in Engineering, Science, and Technology. May 18 – 20, 2023.
- Jiao, Junfeng, Ryan Hardesty Lewis, Kijin Seong, Arya Farahi, Paul Navratil, Nate Casebeer, and Dev Niyogi. “[Fire and Smoke Digital Twin -- A Computational Framework for Modeling Fire Incident Outcomes](#).” May 18, 2023.
- Jiao, Junfeng, S. Choi, and Weijia Xu. “[Tracking Property Ownership Variance and Forecasting Housing Price with Machine Learning and Deep Learning](#),” 2021
- Jiao, Junfeng, Seung Jun Choi, Huihai Wang, and Arya Farahi. “[Evaluating Air Quality Status in Chicago: Application of Street View Imagery and Urban Climate Sensors](#).” *Environmental Modeling & Assessment*, April 21, 2023.
- Jiao, Junfeng, Shunhua Bai, and Seung Jun Choi. “[Understanding E-Scooter Incidents Patterns in Street Network Perspective: A Case Study of Travis County, Texas](#).” *Sustainability* 13, no. 19 (September 24, 2021): 10583.
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# Good Systems Team

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Good Systems' Executive Team represents the College of Liberal Arts, the College of Natural Sciences, the Moody College of Communication, the Cockrell School of Engineering, the LBJ School of Public Affairs, the School of Architecture, and the School of Information.

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