

Dmitry Kireev

Biomedical Engineering. University of Massachusetts Amherst
Amherst, MA, USA

kirdmitry@gmail.com & dkireev@umass.edu

[Google Scholar Profile](#)

+1-413-545-8894

ORCID ID: 0000-0003-1499-5435

ResearcherID: O-9757-2017

<https://kireevlab.com>

EDUCATION

**Forschungszentrum Julich &
RWTH Aachen, Germany**

PhD in Physics/Bioelectronics
Magna cum laude

2013 - 2017

**Chalmers University of Technology
Goteborg, Sweden &
KULeuven, Leuven, Belgium;**

MSc in Nanoelectronics,
Erasmus Mundus Master of Nanoscience and
Nanotechnology
Magna cum laude

2011 - 2013

**National Research University of
Electronic Technology
Moscow, Russia**

MSc in Engineering and Nanotechnology
Summa cum laude
BSc in Engineering and Nanotechnology
Summa cum laude

2010 - 2012

2006 - 2010

RESEARCH FOCUS

- Wearable and Implantable Bioelectronics
- Human-Machine Interfaces
- Electronic Tattoos
- Neurotechnology
- Nanotechnology
- 2D Materials
- Neural Interfaces
- Advanced Biosensors
- Biohybrids

ACADEMIC AND RESEARCH EXPERIENCE

Assistant Professor – The University of Massachusetts Amherst
Department of Biomedical Engineering

2023 –

- “**2D Bioelectronics**” Independent research lab

Research Associate – The University of Texas at Austin, Austin, TX, USA
Department of Electrical and Computer Engineering

2020 – 2023

- Research towards wearable and implantable electronic devices;
- Obtaining research grants, establishing international collaborations, supervising research students;
- Established human clinical trials for translational blood pressure (BP) monitoring with graphene tattoos;

Postdoctoral Researcher – The University of Texas at Austin, Austin, TX, USA
PI: Dr. Deji Akinwande

2018 – 2020

Department of Electrical and Computer Engineering

- Developed active wearable e-tattoos and biosensors;
- Pioneered PtSe₂ and PtTe₂ based electronic tattoos;
- Established and managed a research laboratory (focus on wearable bioelectronics ~600 ft.²);

Postdoctoral Researcher – Forschungszentrum Julich, Germany
PI: Dr. Andreas Offenhäusser

2017 – 2018

Institute of Bioelectronics

- Developed flexible neurotechnology devices based on graphene for the brain- and eye- electrophysiology;
- Engineered various graphene-based biosensing platforms;

PhD Researcher – Forschungszentrum Julich, Germany
PI: Dr. Andreas Offenhäusser

2013 – 2017

Institute of Bioelectronics

PhD Dissertation: “Graphene Devices for Extracellular Measurements”

- Introduced graphene FETs and MEAs as *in vitro* and *in vivo* cellular neurointerfacing tools;

Research Intern – IMEC, BelgiumPI: *Dr. Cedric Huyghebaert*

- Graphene fabrication, transfer, implementation, and characterization;

ACADEMIC HONORS

- 2026 – Interstellar Initiative Awardee, New York Academy of Sciences (NYAS) and Japan Agency for Medical Research and Development (AMED).
- 2026 – Emerging Investigator in Electronic Materials Award Finalist – Materials Today Electronics
- 2026 – Center for Research on Families Fellow – UMass Amherst
- 2024 – American Heart Association Career Development Award
- 2024 – Materials Research Society "Early Career Distinguished Presenter" Award
- 2024 - DigiStar Scholar by the Digital Health Initiative of the University of Utah
- 2024 - mHealth Training Institute Fellow
- 2023 - Semi-finalist for MIT's 35 Innovators Under 35
- 2023 - MDPI Biosensors Travel Award
- 2023 - UT Austin Co-Op UT Best Research Paper Award
- 2017 - *Magna cum laude* defence of PhD degree at RWTH Aachen
- 2011 - European commission *scholarship A* Award for Erasmus Mundus Master Program of Nanoscience and Nanotechnology
- 2010 - Young investigator *research grant* “Y.M.N.I.K.” Moscow, Russia

EXTRAMURAL CURRENT GRANT SUPPORT at UMass Amherst

2026-2030	ARPA-H Delphi	<u>\$30,000,000 (UMass portion \$800,000)</u>
	• Title: <i>SENTINEL</i> • Role: Co-PI • Lead PI: Elisa Riedo, NYU	
2023-2027	NSF:FET:Small	<u>\$600,000 (UMass portion \$245,000)</u>
	• Title: <i>Hybrid Electrical, Ionic, and Biocompatible Artificial Synaptic Transistors</i> • Role: Co-PI • Co-PI: J-A. Incorvia, UT Austin	
2024-2027	NSF CBET EAGER grant	<u>\$200,000</u>
	• Title: <i>Aptamer-Infused Janus Graphene Transistor as Sweat Biosensing Platform</i> • Role: Principal Investigator	
2024-2027	AHA Career Development Award	<u>\$231,000</u>
	• Title: <i>Multimodal Graphene Bioelectronic Interfaces For Imperceptible Diagnosis And Treatment Of Heart-Related Disorders</i> • Role: Principal Investigator	

PRIOR GRANT SUPPORT

2022–2024	NSF EAGER	<u>\$200,000</u>
	• Award #2222907 • Title: <i>EAGER: Pan-Variant Covid-19 Differentiated Biosensing Using Graphene Field-Effect Sensors</i> • Role: grant writing and project planning • PI: D. Akinwande	
2023-2024	ACS/IRG American Cancer Society Institutional Research Grant	<u>\$50,000</u>
	• Title: <i>Wearable Graphene Impedance Tattoo Tomography for Skin Cancer Detection</i> • Role: Co-PI • PI: E. Porter	
2022-2023	NIST Transfer of Graphene for Graphene-based Devices	<u>\$150,000</u>
	• Title: <i>URGENT: Ultrasonic Graphene Transfer</i> • Role: Grant writing and project planning • PI: A. Chamrathy, Lab91	

2020–2021 NSF RAPID

50% of total \$150,000

- Award #2033846
- Title: *Dual COVID-19 and Influenza Virus Detection via Target Antibody-Functionalized Graphene Field-Effect Sensing*
- Role: ~80% grant writing and project planning
- PI: D. Akinwande; Co-PI: A. Ellington

Fall 2020 UT-Austin ECE seed grant

\$15,000

- Title: *Rapid detection of COVID-19 Virus via Target Antibody-Functionalized Graphene Field-Effect Sensing*
- Role: Co-PI. Co-PI: Deji Akinwande

2016–2017 FZ-Jülich grant for a master thesis support project

€10,000

- Role: Principal Investigator

2010–2012 Young investigator research grant “Y.M.N.I.K.”

P400,000

- Role: Principal Investigator

JOURNAL PUBLICATIONS

(† corresponding author) (see www.kireevlab.com or [Google Scholar](https://scholar.google.com/citations?user=Kireev) for up-to-date information)

Preprints, ArXiv, in press manuscripts:

- N. Liu, P. Ayelo, U. Misra, M. Ulatowski, C. Xiong, N. Kumar, M. Kolomiets, H. Fadamiro, J. Incorvia, A. Matheny, **D. Kireev**, D. Akinwande. “*Foliar Graphene Sensor for Monitoring Intracellular and Extracellular Leaf Hydration Dynamics*”. Research Square. Preprint. **Submitted – Under Review**.
- M. G. Kaium, N. Kim, S. S. Han, M. S. Shawka, S. Sattar, J. Ko, C. Sitkoff, H.-S. Chung, D. Akinwande, **D. Kireev**, Y. Jung, Y. Jung*. “*Anisotropic Strain-Induced Directionally-Tunable Flexoelectricity in Wafer-Scale Metallic 2D PtTe₂ Layers*”. **Submitted – Under Review**.
- **Md. Mehdi Hasan**, N. Koripally, S. Morris, M. McHugh, S. Liu, G. C. Fleming, D. Xu, X. Duan, J. A. C. Incorvia, D. Akinwande, **D. Kireev**†, “*Skin Controlled Electronic and Physiomorphic Transistor Tattoos*”. **Submitted – Under Review**.

Publications at UMass Amherst:

- [P58] **M. Hasan**, **D. Kireev**†. “*Sensing complex lipids in sweat continuously*”. Nature Sensors, 2026. [Link](#).
- [P57] **M. Hasan**, H. Bao, V. Montes-García, Y. Zhang, J. Ping, P. Samori, X. Duan, **D. Kireev**†. “*Engineering Two-Dimensional Electronic Biosensors*”. Nature Reviews Electrical Engineering, 2026. [Link](#).
- [P56] D. Yakubovsky, M. Mironov, G. Ermolaev, A. Khrebtov, A. Slavich, **P. Narute**, **P. Chowdhury**, R. Kirtaev, I. Khramtsov, A. Minnekhanov, G. Tselikov, D. Grudin, M. Sidorova, N. Pak, P. Maslov, A. Vyshnevyy, H. Zhou, V. G. Kravets, A. N. Grigorenko, I. Kruglov, N. Orekhov, **D. Kireev**†, A. Arsenin, K. S. Novoselov†, V. Volkov†. “*Wafer-Scale Atomically-Thin Gold: Transferable Platform for Flexible Optoelectronics, Thermal Management and Bio-Interfaces*”. Advanced Science, 2026. [Link](#).
- [P55] **I. Khan**, U. Misra, S. Liu, J. A. C. Incorvia, **D. Kireev**†. “*2D Materials for Neuromorphic Biohybrid Applications*”. MRS Communications, 1–14, 2026. [Link](#).
- [P54] K. C. Lan, C. L. Chui, **N. Chang**, Y. J. Kuo, T. H. Tsai, **D. Kireev**†. “*Electrodermal Activity (EDA) Tracking of Meridians Using Graphene Tattoos*”. IEEE Sensors Journal, 2026. [Link](#).
- [P53] **P. Chowdhury**, C. A. Crichton, R. Finster, G. L. Whiting, E. Bihar, **D. Kireev**†. “*Skin Conformal Hydrogel Bioelectrodes for High-Fidelity Electrophysiology and Human–Machine Interfaces*”. Advanced Healthcare Materials, e05753, 2026. [Link](#).
- [P52] U. Misra, P. Varkey, N. Liu, S. Liu, M. Borowicz, B. K. Keitz, A. M. Matheny, **D. Kireev**, D. Akinwande, J. A. C. Incorvia. “*Graphene In-Sensor Compute Device for Plant Hydration Monitoring*”. Nano Letters 26(7), 2432–2440, 2026. [Link](#).
- [P51] R. T. Jayanth, R. Duquette, S. Kutagulla, S. P. Salazar, E. Okogbue, J. Zhou, P. Carmichael, Y. Jung, X. Duan, **D. Kireev**, S. K. Seidlits, D. Akinwande. “*Biocompatibility of large-area two-dimensional electronic materials with neural stem cells*”. Cell Reports Physical Science 7(2), 103094, 2026. [Link](#).

- [P50] G. M Jeanpierre, S. C Omodon, S. D Goldberg, J. Gonzalez, H.-Y. Lu, S. S. Han, M. N Baker, A. Madariaga, M. K Rausch, Y. Jung, D. Akinwande, **D. Kireev**, S. R Santacruz. “Flexible Microelectrode Arrays with Enhanced Electrochemical Properties Using Platinum Ditetelluride”. ACS Applied Electronic Materials, 2025. [Link](#).
- [P49] E. Molokanova, T. Zhou, P. Vasupal, V.P. Cherkas, **P. Narute**, M.S.A. Ferraz, M. Reiss, A. Almenar-Queralt, G. Chaldaiopoulou, J. Sena de Souza, H. Hemati, F. Downey, O.O. Olajide, C. Thörn Perez, F. Puppo, P. Mesci, S.L. Pfaff, **D. Kireev**, A.R. Muotri, A. Savchenko. “Non-genetic neuromodulation with graphene optoelectronic actuators for disease models, stem cell maturation, and biohybrid robotics”. Nat Commun 16, 7499, 2025. [Link](#).
- [P48] **A. Katsoulakis**, **F. Nakyazze**, **M. McHugh**, **S. Morris**, **M. Bhavsar**, **O. Tank**, and **D. Kireev**[†] “Squishy bioelectronic circuits”. Device 3(1), 100553 (2025). ([†] corresponding author). [Link](#)
- [P47] H. Hlukhova, **D. Kireev**, A. Offenhäusser, D. Pustovyi, and S. Vitusevich “Graphene Field-Effect Transistors toward Study of Cardiac Ischemia at Early Stage”. Advanced Electronic Materials 11(2), 2400332 (2024). [Link](#)
- [P46] N. Liu, W. Rossi, **D. Kireev**, and D. Akinwande “Electrophysiological Sensing with Graphene Electronic Tattoos for Saline and Underwater Environments”. ACS Applied Electronic Materials 2025; 7(13): 5868-5875. ([†] corresponding author). [Link](#).
- [P45] **D. Kireev** “A Graphene Biosensor Tattoo: A Flexible Stick-on Patch Could Monitor Blood Pressure, Stress, and More”, IEEE Spectrum 62 (3), 24-29, 2025.
- [P44] **D. Kireev**[†], S. Kutagulla, J. Hong, M.N. Wilson, M. Ramezani, D. Kuzum, J.H. Ahn, D. Akinwande “Atomically thin bioelectronics”. *Nature Reviews Materials* 2024. [Link](#). **Ranked 4th in journal by online attention**.
- [P43] **D. Kireev**[†], N. Koripally, S. Liu, G. C. Fleming, P. Varkey, J. Belle, S. Mohan, S. S. Han, D. Xu, Y. Jung, X. Duan, J. A. C. Incorvia, and D. Akinwande “Skin Controlled Electronic and Neuromorphic Tattoos”. arXiv 2410.05449 (2024). [Link](#)
- [P42] S. Liu, D. Akinwande, **D. Kireev**, J.A.C. Incorvia. “Graphene-Based Artificial Dendrites for Bio-Inspired Learning in Spiking Neuromorphic Systems”. Nano Lett. 2024, 24, 7211–7218. [Link](#)
- [P41] H. Lee, Z. Johnson, S. Denton, N. Liu, D. Akinwande, E. Porter, and **D. Kireev**[†] “A non-invasive approach to skin cancer diagnosis via graphene electrical tattoos and electrical impedance tomography”. *Physiological Measurement* 2024 ([†] corresponding author). [Link](#).

Publications before joining UMass Amherst:

- [P40] S. Mohan, **D. Kireev**, S. Kutagulla, N. Ignacio, Y. Gu, H. Celio, X. Zhan, D. Akinwande, K.M. Liechti. “Direct Metal-Free Growth and Dry Separation of Bilayer Graphene on Sapphire: Implications for Electronic Applications.” *ACS Appl. Nano Mater.* 6, 19018–19028 (2023). [Link](#).
- [P39] S.S. Han, S. Sattar, **D. Kireev**, J-C. Shin, T-S. Bae, H.I. Ryu, J. Cao, A.K. Shum, J.H. Kim, C.M. Canali, D. Akinwande, G-H. Lee, H-S. Chung, Y. Jung. “Reversible Transition of Semiconducting PtSe2 and Metallic PtTe2 for Scalable All-2D Edge-Contacted FETs.” *Nano Lett.* (2023). [Link](#)
- [P38] N. Kumar, D. Towers, S. Myers, C. Galvin, **D. Kireev**[†], A. Ellington, D. Akinwande “Graphene Field Effect Biosensor For Concurrent And Specific Detection Of SARS-CoV-2 And Influenza” 2023 ([†] corresponding author); ACS Nano 17, 18629–18640 (2023). [Link](#)
- [P37] **D. Kireev**^{*}, K. Sel^{*}, B. Ibrahim, N. Kumar, A. Akbari, R. Jafari, D. Akinwande “Continuous Cuff-less Monitoring of Arterial Blood Pressure Via Graphene Bioimpedance Tattoos” *Nature Nanotechnology* 2022 (* co-first authorship), 2022; [Link](#). Ranked 1st in Nature Nanotechnology by Online Attention. [C&EN highlighted](#) the work as one of the breakthroughs of the 2022 Year Several (55+) media outlets have reported on this significant achievement: [Texas A&M Today](#) ; [UTexas News Release](#) ; [The Daily Texan](#); [KXAN News Station Live Coverage](#) ; [IEEE Spectrum](#) ; [New Scientist](#); [ACS C&EN](#) ; [Daily Beast](#) ; [Physics World](#) ; [Physics Org](#) ; [CNN](#); [Physics Today](#).
- [P36] A. Savchenko, **D. Kireev**, R.T. Yin, I.R. Efimov, E. Molokanova. “Graphene-based cardiac sensors and actuators.” *Front. Bioeng. Biotechnol.* **11**, 1–17 (2023). [Link](#)
- [P35] Y. Luo, **et al.** “Technology Roadmap for Flexible Sensors” *ACS Nano* **17**, 5211-5295, 2023. [Link](#)
- [P34] Z. Lin^{*}, **D. Kireev**^{*}, N. Liu^{*}, S. Gupta, J. LaPaino, S. N. Obaid, Z. Chen, D. Akinwande, and I. R. Efimov. “Graphene Biointerface for Cardiac Arrhythmia Diagnosis and Treatment.” *Advanced Materials* 2212190, 2023 (*

co-first authorship). [Link](#). In the top 5% of all research outputs scored by Altmetric. Covered by 50+ media outlets, including [Science News](#), [MedicalXpress](#), [New Atlas](#).

[P33] **D. Kireev**^{*}, S. Liu^{*}, H. Jin, T. P. Xiao, C. H. Bennett, D. Akinwande, and J.-A. C. Incorvia “Metaplastic Low-Power Biocompatible Graphene Artificial Synaptic Transistors for Enhanced Accuracy Neuromorphic Computing”, *Nature Communication* **13**, 4386, 2022; (^{*} co-first authorship); [Link](#). Ranked 1st in Nature Communications by Online Attention. Highlighted by 14+ outlets: [Mirage news](#) ; [Tech Explore](#) ; [ScienMag](#) ; [Bioengineer](#); [Eureka Alert](#) ; [Science Daily](#) ; [AZO Materials](#) ; [Today Headline](#).

[P32] E. Szmuc, D.J.F. Walker, **D. Kireev**, D. Akinwande, D. R. Lovley, B. Kietz, A. Ellington, “Engineering *Geobacter Pili* to Produce Metal:Organic Filaments” *Biosens. Bioelectron.* **2022**, 114993, 2022.

[P31] N. Hong, **D. Kireev**, Q. Zhao, D. Chen, D. Akinwande, W. Li, “Roll-to-Roll Dry Transfer of Large-scale Graphene” *Advanced Materials*, **34**(3), 2106615, 2022; [Link](#).

[P30] †**D. Kireev**, J. Kampfe, A. Hall, D. Akinwande “Graphene Electronic Tattoos 2.0: Enhanced Performance, Breathable, Robust”, *npj 2D materials and applications*, **6**, 46, 2022; († corresponding author); [Link](#). Highlighted by [AZO Nano](#)

[P29] N. Nekrasov, S. Jaric, **D. Kireev**, A.V. Emelianov, A. V. Orlov, I. Gadjanski, P. I Nikitin, D. Akinwande, I. Bobrinetskiy “Real-time detection of ochratoxin A in wine through insight of aptamer conformation in conjunction with graphene field-effect transistor,” *Biosensors and Bioelectronics* **200**, 113890, 2022; [Link](#).

[P28] M. Fomin, F. Pasadas, E. G. Marin, A. Medina-Rull, F. G. Ruiz, A. Godoy, I. Zadorozhnyi, G. Beltramo, F. Brings, S. Vitusevich, A. Offenhäusser, **D. Kireev**[†] “Graphene on Silicon Hybrid Field-Effect Transistors”, Under revision, *Advanced Electronic Materials*, († corresponding author); *Adv. Electron. Mater.* 2023, 2201083. [Link](#).

[P27] †**D. Kireev**, S. Ameri, A. Nederveld, J. Kampfe, H. Jang, N. Lu, D. Akinwande “Fabrication, Characterization and Applications of Graphene Electronic Tattoos” *Nature Protocols* **16**(5), 2395–2417, 2021; († corresponding author); [Link](#).

[P26] †**D. Kireev**, E. Okogbue, J. RT, T.-J. Ko, Y. Jung, D. Akinwande “Multipurpose and Reusable Ultrathin Electronic Tattoos Based on PtSe₂ and PtTe₂” *ACS Nano* **15** (2), 2800–2811, 2021; († corresponding author); [Link](#).

[P25] A. Savchenko, R. T Yin, **D. Kireev**, I. R Efimov, and E. Molokanova “Graphene-based scaffolds: Fundamentals and Applications for Cardiovascular Tissue Engineering”, *Front. Bioeng. Biotechnol.* **9**, 1-8, 2021; [Link](#).

[P24] †A. Svetlova, †**D. Kireev**, D. Mayer, A. Offenhäusser “Origins of leakage currents on electrolyte-gated graphene field-effect transistors” *ACS Applied Electronic Materials* **3** (12), 2021. († co-corresponding author). [Link](#).

[P23] Y.-B. Chung, **D. Kireev**, M. Kim, D. Akinwande, and S.-J. Kwon “Enhanced Heat Dissipation Performance of Chemical Doped Graphene for Flexible Devices” *Korean Phys. Soc.* **78**(1), 2021; [Link](#).

[P22] A. Svetlova, G. Beltramo, **D. Kireev**, A. Offenhäusser “Quartz crystal microbalance monitoring of large-area graphene anodization reveals layer fracturing” *MRS Advances*, 1-6, 2021; [Link](#).

[P21] O. Oshin, **D. Kireev**, H. Hlukhova, F. Idachaba, D. Akinwande, A. Atayero. “Graphene-Based Biosensor for Early Detection of Iron Deficiency” *Sensors* **20**, 3688, 2020; [Link](#).

[P20] N. Nekrasov, **D. Kireev**, N. Omerović, A. Emelianov, and I. Bobrinetskiy, “Photo-Induced Doping in a Graphene Field-Effect Transistor with Inkjet-Printed Organic Semiconducting Molecules” *Nanomaterials* **9**, 1753, 2020; [Link](#).

[P19] **D. Kireev** and D. Akinwande, “Wearable graphene sensors use ambient light to monitor health” *Nature* **576**, 220-221, 2019; [Link](#).

[P18] †**D. Kireev**, V. Rincón Montes, J. Stevanovic, K. Srikantharajah, A. Offenhäusser, A. “N3-MEA probes: Scooping Neuronal Networks” *Frontiers in neuroscience*, **13**, 320, 2019; († corresponding author); [Link](#).

[P17] T. Hondrich, B. Lanyk, P. Shokoohimehr, **D. Kireev**, V. Maybeck, D. Mayer, A. Offenhäusser, “MEA Recordings and Cell-Substrate Investigations with Plasmonic and Transparent, Tunable Holey Gold” *ACS Appl. Mater. Interfaces* **11** (50), 46451-46461, 2019; [Link](#).

[P16] X. Zhang, Q. Jing, S. Ao, G.F. Schneider, **D. Kireev**, Z. Zhang, W. Fu, “Ultrasensitive Field-Effect Biosensors Enabled by the Unique Electronic Properties of Graphene” *Small* 1902820, 2019; [Link](#).

[P15] N. Nekrasov, **D. Kireev**, A. Emelianov, and I. Bobrinetskiy. “Graphene-Based Sensing Platform for On-Chip Ochratoxin A Detection” *Toxins* **11**, no. 10: 550, 2019; [Link](#).

- [P14] †**D. Kireev**, A. Offenhäusser, “Graphene & two-dimensional devices for bioelectronics and neuroprosthetics” *2D materials* **5** (4), 042004, 2018; († corresponding author); [Link](#).
- [P13] A.V. Emelianov, **D. Kireev**, A. Offenhäusser, N. Otero, P. Romero, I. Bobrinetskiy, “Thermoelectrically driven photocurrent generation in femtosecond laser patterned graphene junctions” *ACS photonics*, pp 3107-3115, 2018; [Link](#).
- [P12] Y. Liang, M. Ernst, F. Brings, **D. Kireev**, V. Maybeck, A. Offenhäusser, D. Mayer, “High performance flexible organic electrochemical transistors for monitoring cardiac action potential” *Advanced Healthcare Materials* 1800304, 2018; [Link](#).
- [P11] A. Barannik, N. T. Cherpak, I. A. Protsenko, A. I. Gubin, **D. Kireev**, and S. Vitusevich. “Contactless exploration of graphene properties using millimeter wave response of WGM resonator” *Applied Physics Letters* **113**, no. 9, 094102, 2018; [Link](#).
- [P10] **D. Kireev**, P. Shokoohimehr, M. Ernst, V. Montes, K. Srikantharajah, V. Maybeck, B. Wolfrum, A. Offenhäusser “Fabrication of ultrathin and flexible graphene-based devices for in vivo neuroprosthetics” *MRS Advances* **3**(29), 1621-1627, 2018; [Link](#).
- [P9] **D. Kireev**, I. Zadorozhnyi, T. Qiu, D. Sarik, F. Brings, T. Wu, S. Seyock, V. Maybeck, M. Lottner, B. Blaschke, J. Garrido, X. Xie, S. Vitusevich, B. Wolfrum, A. Offenhäusser, “Graphene transistors for in-vitro and ex-vivo recordings” *IEEE transactions on Nanotechnology* **16**, 140-147, 2017; [Link](#).
- [P8] **D. Kireev**, S. Seyock, J. Lewen, V. Maybeck, B. Wolfrum, A. Offenhäusser, “Graphene multi electrode arrays as a versatile tool for extracellular recordings” *Adv. Healthcare Materials* **6**, 1601433, 2017; [Link](#).
- [P7] **D. Kireev**, M. Brambach, S. Seyock, V. Maybeck, W. Fu, B. Wolfrum, A. Offenhäusser, “Graphene transistors for interfacing with cells: towards a deeper understanding of liquid gating and sensitivity” *Scientific Reports* **7**, 6658, 2017; [Link](#).
- [P6] W. Fu, L. Feng, G. Panaitov, **D. Kireev**, D. Mayer, A. Offenhäusser, and H.-J. Krause, “Biosensing near the neutrality point of graphene” *Science Advances* **3**(10), 1701247, 2017; [Link](#).
- [P5] **D. Kireev**, S. Seyock, M. Ernst, V. Maybeck, B. Wolfrum, A. Offenhäusser, “Versatile flexible graphene microelectrode arrays” *Biosensors* **7**, 1-9, 2017; [Link](#).
- [P4] W. Fu, L. Feng, D. Mayer, G. Panaitov, **D. Kireev**, A. Offenhäusser, and H.-J. Krause, “Electrolyte-Gated Graphene Ambipolar Frequency Multipliers for Biochemical Sensing” *Nano Letters* **16**(4), 2295, 2016; [Link](#).
- [P3] V. Emelianov, **D. Kireev**, D. D. Levin, I. I. Bobrinetskiy, “The effect of ultraviolet light on structural properties of exfoliated and CVD graphene” *Applied Physics Letters* **109**, 173101, 2016; [Link](#).
- [P2] **D. Kireev**, D. Sarik, T. Wu, X. Xie, B. Wolfrum, and A. Offenhäusser, “High throughput transfer technique: Save your graphene” *Carbon* **107**, 319-324, 2016; [Link](#).
- [P1] Y. Nam, J. Sun, N. Lindvall, S. J. Yang, **D. Kireev**, C. R. Park, Y. W. Park, A. Yurgens, “Quantum Hall effect in graphene decorated with disordered multilayer patches” *Applied Physics Letters* **103**, 233110, 2013; [Link](#).

INVITED TALKS / Dmitry Kireev

- I33) **D. Kireev** “2D Bioelectronics at the Human Interface: Graphene E-Tattoos and Biosensors”, Graphene Week 2026.
- I32) **M. Hasan**, **M. McHugh**, **D. Kireev** “Hybrid Macroscale Graphene Field Effect Transistor Biosensors”, Electrochemical Society Meeting, 2026
- I31) **D. Kireev** “2D Bioelectronics at the Human Interface: Graphene E-Tattoos and Biosensors”, IEEE FLEPS 2026.
- I30) **D. Kireev** “Graphene Transistor Tattoos for Neuromorphic Bioelectronics” MRS Spring 2026.
- I29) **D. Kireev** “Atomically Thin Bioelectronics, Wearable E-Tattoos, and Biosensors”, UConn, 2025.
- I28) **D. Kireev** “Atomically Thin Bioelectronics, Wearable E-Tattoos, and Biosensors”, WPI, 2025.
- I27) **D. Kireev** “Atomically Thin Wearable and Implantable Bioelectronics”, Electrochemical Society Meeting Abstracts 247, 2853-2853, 2025
- I26) **D. Kireev** “Brain-mimicking Bioelectronics” †**Keynote talk**, XPANSE conference, Abu Dhabi, 2024.
- I25) **D. Kireev** “Atomically Thin Bioelectronics: from Biosensors to Wearable E-Tattoos”, NYU, 2024.

- I24) **D. Kireev** “2D Materials for Bioelectronic and Neuromorphic Applications”, UMass Amherst Materials Colloquium, 2024.
- I23) **D. Kireev** “2D Materials for Bioelectronics”, IEEE NoVa 2024
- I22) **D. Kireev**, D. Akinwande “Biosensors and Wearable Tattoo Sensors Based on 2D Atomic Materials”, MRS Fall 2023.
- I21) **D. Kireev** “Atomically Thin Boundary Between Wearable and Implantable Bioelectronic Interfaces” MRS Fall 2023.
- I20) **D. Kireev** “Atomically Thin Bioelectronics”, UMass Amherst BME, 2023.
- I19) **D. Kireev** “Tissue-Like Neuroelectronics”, EPFL Neuro-X, 2023.
- I18) **D. Kireev** “Atomically Thin Bioelectronics”, Dartmouth Engineering, 2023.
- I17) **D. Kireev** “Atomically Thin Bioelectronics”, Drexel MSE, 2023.
- I16) **D. Kireev** “Atomically Thin Bioelectronics”, McMaster Engineering, 2023.
- I15) **D. Kireev** “Tissue-Like Neuroelectronics”, Brown Neuroengineering, 2023.
- I14) **D. Kireev** “Atomically Thin Bioelectronics”, UC Riverside Bioengineering, 2023.
- I13) **D. Kireev** “Atomically Thin Bioelectronics”, University of Edinburgh, 2023.
- I12) **D. Kireev** “Atomically Thin Bioelectronics”, Stevens Institute of Technology, 2023.
- I11) **D. Kireev** “Atomically Thin Bioelectronics”, University of Maryland College Park, 2023.
- I10) **D. Kireev**, D. Akinwande “Two-dimensional Skintronics”, *American Vacuum Society* 2022.
- I9) **D. Kireev** “Atomically Thin Bioelectronics”, Stanford, 2022.
- I8) **D. Kireev** “Atomically Thin Bioelectronics”, UC Berkeley, 2022.
- I7) **D. Kireev**, D. Akinwande “Two-dimensional Skintronics”, Gordon Research Conference and Seminar - *Two Dimensional Electronics Beyond Graphene* 2022.
- I6) **D. Kireev**, Neelotpala Kumar, Nandu Koripally, D. Akinwande “Two-dimensional Skintronics”, *MRS Spring* 2022 meeting.
- I5) **D. Kireev**, “Conventional and unconventional biosensing with 2D materials”, *Workshop 2D Materials for Biomedical Applications*. Online talk. 2022
- I4) **D. Kireev** Postdoc Quest Series “Towards Two-Dimensional Humans”, *IEEE graduate student chapter*. Online talk. [Link](#). 2021.
- I3) **D. Kireev** “Биоэлектроника на основе двумерных материалов”, *PhysTech Lecture Series* 2021.
- I2) **D. Kireev** “Atomically Thin Wearable e-Tattoo Biosensing”, *Sensor RIG*. Online talk. [Link](#). 2021.
- I1) **D. Kireev** “Graphene Bioelectronics”, Aachen Graphene & 2D Materials Center, Germany 2017.

OTHER PRESENTATIONS & TALKS / Students

- St18) **I. Khan**, **M. Tiernan**, **K. Kirleis**, J. A. Incorvia, **D. Kireev**, “Biohybrid Biotic-Abiotic Neuromorphic Communication Using Graphene Synaptic Transistors,” MRS Fall Meeting & Exhibit, 2026.
- St17) **M. M. Hasan**, **M. McHugh**, **O. Windels**, **N. Murchhona**, **S. Kong**, **D. Kireev** “Graphene Field Effect Transistor Aptasensor for Biosensing in Complex Fluid”, Asilomar Bioelectronics 2026
- St16) **P. Chowdhury**, **A. Kulkarni**, **K. Stevens**, **D. Kireev** “Graphene Bioimpedance: A Soft, Wearable Route to Continuous Blood Pressure and Arterial Stiffness Monitoring”, CPHM Research Showcase 2026, UMass Amherst
- St15) **Z. Lei**, **P. Chowdhury**, **S. Morris**, P. Nguyen, **D. Kireev**, D. Ganesan “Electronic Tattoos for Electrophysiology: Integration with Smartwatch for ECG Monitoring”, Digital Frontiers in Frailty: Opportunities for Early Detection and Clinical Action Workshop, MassAITC 2026, Boston, MA
- St14) **M. M. Hasan**, **M. McHugh**, **D. Kireev** “Graphene Field-Effect Transistors for Early Detection of Neurodegenerative Diseases”, MassAITC 2026, Boston, MA
- St13) **S. Dicovitsky**, **P. Chowdhury**, **D. Kireev** “Toward Objective Pain Assessment Using Wearable Graphene Bioelectronics”, REU Research Symposium, 2026, UMass Amherst
- St12) **G. Elie**, **D. Kireev** “Merging Electronics with Skin: Graphene-Based Nano E-Tattoos for Continuous Electrophysiological Monitoring”, Massachusetts Undergraduate Research Conference 2026, UMass Amherst.
- St11) **K. Kirleis**, **I. Khan**, **D. Kireev**, “Noninvasive Sweat Potassium Monitoring Using Graphene Wearable Biosensors,” AHA REU Program 2026, UMass Amherst.

- St10) **M. M. Hasan, M. McHugh, D. Kireev** "Graphene Field-Effect Transistors for Early Detection of Neurodegenerative Diseases", Graduate Research and Recognition Symposium 2026, UMass Amherst
- St9) **P. Chowdhury, D. Kireev** "Bioimpedance: A Soft, Wearable Route to Continuous Blood Pressure and Arterial Stiffness Monitoring", Selected Lightning Talk Speaker, Graduate Research and Recognition Symposium 2026, UMass Amherst
- St8) **I. Khan, D. Kireev**, "Ion Selective Graphene FET Synaptic Transistor Mimicking Biological Gated Ion Channels," Graduate Research and Recognition Symposium 2026, UMass Amherst.
- St7) **M. Zhang, A. Katsoulakis, O. Windels, D. Kireev** "Tissue Conformable Graphene based Bioelectronics", Graduate Research and Recognition Symposium 2026, UMass Amherst.
- St6) U Misra, R Dhiman, H Behera, **D Kireev**, D Akinwande, M Kumar, J A C Incorvia (2026). "Calcium-Regulated Plasticity in Graphene Artificial Synapses for Biomimetic Neuromorphic Computing". Best Paper Finalist. Device Research Conference 2026, Ann Arbor.
- St5) U Misra, P Varkey, N Liu, S Liu, M Borowicz, B K Keitz, A M Matheny, **D Kireev**, D Akinwande, J A C Incorvia, "Graphene In-Sensor Compute Device for Plant Hydration Monitoring". MRS Spring 2026, Honolulu
- St4) **A. Katsoulakis**, Chancellor's Donor Appreciation Breakfast Student Speaker, 2025, UMass Amherst
- St3) **A. Katsoulakis**, Daniel J. Riccio Jr. College of Engineering Dedication Event Student Speaker, 2025, UMass Amherst
- St2) **P. Chowdhury, A. Kulkarni, K. Stevens, D. Kireev** "Bioimpedance: A Soft, Wearable Route to Continuous Blood Pressure and Arterial Stiffness Monitorinn", Riccio College of Engineering Innovation Day, 2025, UMass Amherst
- St1) **A. Katsoulakis, Md M. Hasan, D. Kireev**, "Graphene Field-Effect Transistor (GFET) Biosensors: Performance in Complex Biological Fluids", CAFE REU Summer Scholars, 2025, UMass Amherst

CONFERENCE PROCEEDINGS

- CP10) P Varkey*, U Misra*, N Zogbi, J Guarnery, S Liu, **D Kireev**, D Akinwande, J A C Incorvia (2026). "First Sub-Attojoule All Analog Inference Demonstration Using Biocompatible Soft Polymer ECRAMs for Neuromorphic Computing". *IEEE IEDM* 2026.
- CP9) **P. Chowdhury, A. Kulkarni, K. Stevens, S. Dicovitsky**, and **D. Kireev**, "Graphene Auricular Bioimpedance: Toward Continuous Blood Pressure Monitoring from Temporal Artery." *IEEE Engineering in Medicine and Biology Conference (EMBC)* 2026.
- CP8) **P. Chowdhury, K. Stevens, A. Kulkarni, S. Dicovitsky**, and **D. Kireev**, "Cross-Site Graphene Tattoo Bioimpedance for Calibration-Free Continuous Tracking of Arterial Stiffness Biomarkers." *IEEE Engineering in Medicine and Biology Conference (EMBC)* 2026.
- CP7) H. Lee, S. Denton, **D. Kireev**, D. Akinwande, Z. Johnson, E. Porter "Wearable Graphene Tattoo Impedance Tomography for Skin Lesion Differentiation." *IEEE Biomedical Circuits and Systems Conference (BioCAS)*, 2023.
- CP6) N. Nekrasov, A. Emelianov, **D. Kireev**, N. Omerović, and I. Bobrinetskiy, "Photosensitive junctions based on UV-modified graphene and inkjet-printed organic molecules," *Organic Electronics and Photonics: Fundamentals and Devices II* SPIE Photonics Europe, 2020;
- CP5) O. Oshin, **D. Kireev**, D. Akinwande, E. Adetiba, F. Idachaba, A. Atayero. "Advancing PoC Devices for Early Disease Detection using Graphene-based Sensors," *Journal of Physics: Conference Series* 1378 (3), 032031;
- CP4) K. Sel, **D. Kireev**, A. Brown, B. Ibrahim, D. Akinwande, R. Jafari, "Electrical Characterization of Graphene-based e-Tattoos for Bio-Impedance-based Physiological Sensing," *IEEE BioCAS Conference* 2019, Nara, Japan;
- CP3) I. Protsenko, A. Barannik, N. Cherpak, A. Gubin, **D. Kireev**, S. Vitusevich. "WGM Resonators for Conductivity Measurements of Graphene Films," *49th European Microwave Conference* 2019;
- CP2) I. Bobrinetskiy, A. Emelianov, **D. Kireev**, N. Otero, P. Romero "Photosensitive in-plane junction in graphene field effect transistor modified under femtoseconds laser irradiation," *Nanophotonics* VII 2018;
- CP1) A. Emelianov, **D. Kireev**, N. Otero, P. Romero, I. Bobrinetskiy "Photoresponse in graphene field effect transistor under ultra-short pulsed laser irradiation," *Micro-and Nano-Electronics* 2016.

BOOK CHAPTERS

- B3) **D. Kireev** and D. Akinwande, "Electronic Tattoos" at Encyclopedia of Sensors and Biosensors; *Volume 4*, 2023, Pages 103-114; 2022. [Link](#).
- B2) **D. Kireev** and A. Offenhäusser, "Graphene as an Organic and Bioelectronic Material," *Organic Bioelectronics for Life Science and Healthcare* 56 (2019) 153-184. [Link](#).

B1) A. Offenhäusser, S. Weidlich, **D. Kireev**, K. Srikantharajah, V. Rincón Montes “*Microelectrode devices for in vitro and in vivo recordings of cellular activity*,” 49th IFF Spring school book chapter.

PATENTS

Pat4) N. Liu, **D. Kireev**, D. Akinwande, J. A. C. Incorvia, A. M. Matheny, “Foliar Graphene Sensor System for Monitoring Plant Hydration”. Provisional US Patent filed.

Pat3) **F. Nakyazze**, **I. Khan**, **D. Kireev**, “Method of Providing Conductive Skin” Provisional US Patent filed.

Pat2) **D. Kireev**, D. Akinwande, N. Kumar, D. Towers “Multi-targeted, modular virus sensing platform” US Patent App. 18/714,512

Pat1) **D. Kireev**, D. Sarik, B. Wolfrum, A. Offenhäusser “Method for transferring graphene pieces onto a substrate,” 2016 PCT/DE 102015016143.1, & WO2017097279A1 & US10593762B22016.

INDUSTRY CONSULTING

- 1) Lab-91 – Anand Chamrathy – Research consulting on industrial grade graphene transfer;
- 2) GrapheneDx and Peregrine Biosense – Research consulting on nanomaterials-based biosensing

Selected NEWS & FEATURES & PRESS RELEASES

- “Where Sensing Gels” – [You Wear It... Well Podcast](#).
- “Graphene Health Monitor” – Special Feature at [NSF Discovery Files](#).
- Brain-Mimicking Bioelectronics – [XPANSE 2024](#).
- “Sweat-analyzing temporary tattoo research funded in NSF grant” – [UMass Amherst Press Release](#).
- “Computer chips that think like brains” – [Spectrum News Video Feature](#).
- “Temporary “tattoos” that measure blood pressure” – [NIH NIBIB Feature Release](#).
- “Blood pressure project could hold keys to better health” – [Spectrum News Video Feature](#).
- “Graphene and Beyond: The Wonder Materials That Could Replace Silicon in Future Tech” – [The Wall Street Journal](#).
- “Graphene tattoos that you can DIY” – Springer Nature “[Behind the Paper](#)”.
- “Hi-tech dual-sensor to detect COVID-19 and flu in development” – [ABC News](#).
- “UT researchers developing sensor that can test for coronavirus, flu simultaneously” – [KVUE News](#).
- “COVID-19 Or The Flu? A Sensor In The Works Could Tell The Difference. Why It Matters.” [KUT Radio Interview Part](#).
- “Lauschangriff auf Nervenzellen” – [FZJ News](#) (in German). [Audio Part](#) (in English).
- “Графен в медицине” – [Postnauka](#) (in Russian).
- “A Graphene ‘Camera’ Images the Activity of Living Heart Cells” – Interview for [WIRED](#).
- “New Pen-and-Ink Method Draws Health Sensors Directly on Skin” – Interview for [Scientific American](#).

TEACHING EXPERIENCE

Spring 2026	Instructor	“Bioinstrumentation” core class, UMass Amherst, BME
Fall 2025	Instructor	“Frontiers of <i>Bioelectronics</i> ” lecture course, UMass Amherst, BME, elective
Spring 2025	Instructor	“Bioinstrumentation” core class, UMass Amherst, BME
Fall 2024	Instructor	“Frontiers of <i>Bioelectronics</i> ” lecture course, UMass Amherst, BME, elective
Fall 2023	Instructor	“Frontiers of <i>Bioelectronics</i> ” lecture course, UMass Amherst, BME, elective
Fall 2022	Guest Lecturer	“ <i>Bioelectronics with 2D materials</i> ”, BME @ UT Austin
Spring 2022	Guest Lecturer	“ <i>Flexible 2D Electronics</i> ”, “ <i>Graphene Tattoos</i> ” ECE @ UT Austin
Fall 2020	Guest Lecturer	“ <i>Graphene Electronic Tattoos</i> ”, “ <i>Graphene Synthesis</i> ” ECE @ UT Austin
Fall 2019	Guest Lecturer	“ <i>Graphene Synthesis</i> ”, “ <i>Flexible 2D electronics</i> ”, “ <i>Graphene Wearable Sensors</i> ”, ECE @ UT Austin
Spring 2019	Guest Lecturer	“ <i>Graphene Wearable Sensors</i> ”, UT Austin
Spring 2017	Invited Lecturer	“ <i>Graphene Devices for Neuroelectroprosthesis and Overview of Neuroelectronics Techniques</i> ”, Neuroengineering, TUM, Germany

ACADEMIC SERVICE / Editorial

- 2026-now Editorial Board Member - Scientific Reports
- 2025-now IEEE EMBC Associate Editor
- 2024-now Guest Editor, *npj 2D materials and applications*. [Link](#).
- 2024-2025 Guest Editor, *IOP J Phys*. [Link](#).
- JoVe Methods Collection Guest Editor. [Link](#)
- Topic Editor for MDPI *Biosensors*. [Link](#)
- Review Editor at the Frontiers in Neuroscience, Neural Technology. [Link](#)

ACADEMIC SERVICE / Conferences & Symposiums

- 2026- Organized Fall MRS 2026 Symposium NM.04 Symposium
- 2025- Organized Fall MRS 2025 Symposium SB.04 Symposium
- 2023- Organized Fall MRS 2023 Symposium SB.11 “Wearable and Implantable Neuro- and Bio-Electronics with 2D Materials.”
- 2021- Organized Fall MRS 2021 Symposium SB.06 “Graphene and Related 2D Materials for Bioelectronics and Healthcare”.

Member of the *Material Research Society*, *American Chemical Society*, *Electrochemical Society*, and the *IEEE*.

ACADEMIC SERVICE / Other

- 2025-now The Royal Society Ad hoc Reviewer
- 2024-now NIH Reviewer
- 2022-now NSF Reviewer
- 2020-2023 UT Austin *VPR Research & Creative Grants* Reviewer
- 2020-2023 *Undergraduate Research Fellowship* Reviewer at UT Austin
- Ad hoc reviewer for Nature Communications, ACS Nano, ACS AMI, Advanced Materials Family, Science Advances, MDPI Journals family, Nanoscale Research Letters, Frontiers in Neuroscience. [Web Of Science Profile](#)

DEPARTMENT AND UNIVERSITY SERVICE

- 2025 – current BME Department Website Committee
- 2025 – 2026 BME Department Graduate Curriculum Committee
- 2025 – 2026 BME Department TT Faculty Search Committee
- 2024 – current Cleanroom Advisory Committee
- 2024 – 2025 MSE Interdisciplinary Graduate Program Steering Committee
- 2024 – 2025 MSE Research Strategy Working Group
- 2024 – 2025 BME Department TT Faculty Search Committee
- 2023 – 2025 BME Department Undergraduate Curriculum Committee
- 2023 – 2025 BME Department Lecturer Search Committee
- 2023 – 2025 University wide MSE IDG Committee

OUTREACH AND LEADERSHIP

- IEEE Graduate *Student Chapter's* Postdoctoral Member (2018–2022). [Website](#). [YouTube Channel](#)
- RIG Sensors Executive Postdoctoral Committee Member (2020–2023). [Website](#). [YouTube Channel](#)
- Research Experience for Undergraduates (REU) mentor. (2021–present).
- Research Experience for Teachers (RET) mentor.
- Mentor (2020–2022) at [The Science Mentors](#) program.

MENTORING AND SUPERVISION

<i>Name (Products ^[x] if any)</i>	<i>Type and Institute</i>	<i>Currently</i>
Mehdi Hasan ^[P58, P57, I32, St17, St14, St10, St1]	PhD @ UMass Amherst	UMass Amherst
Pritom Chowdhury ^[P56, P53, St16, St15, St13, St9, St2, CP9, CP8]	PhD @ UMass Amherst	UMass Amherst
Imran Khan ^[P55, St18, St11, St8, Pat3]	PhD @ UMass Amherst	UMass Amherst

Meiyue Zhang ^[St7]	PhD @ UMass Amherst	UMass Amherst
Prashant Narute ^[P56, P49]	Postdoctoral Fellow @ UMass Amherst	UMass Amherst
Alexandra Katsoulakis ^[P48, St7, St4, St3, St1]	UG @ UMass Amherst, * Best Student Researcher Award	UMass Amherst
Aryan Kulkarni ^[St16, St2, CP9, CP8]	UG @ UMass Amherst	UMass Amherst
Nell Woolfolk	UG @ UMass Amherst	UMass Amherst
Darya Krupysheva ^[St17]	UG @ UMass Amherst	Stryker
Sara Kong ^[St12]	UG @ UMass Amherst	UMass Amherst
Gianna Elie	UG @ UMass Amherst * Honors Thesis	UMass Amherst
Andrew Hines	UG @ UMass Amherst	UMass Amherst
Enoch Tai	UG @ UMass Amherst	UMass Amherst
Garv Sharma	UG @ UMass Amherst	UMass Amherst
Kevin Stevens ^[St16, St2, CP9, CP8]	UG @ UMass Amherst	UMass Amherst
Nishat Salsabil Murchhona ^[St17]	UG @ UMass Amherst	UMass Amherst
Ollie Windels ^[St17, St7]	UG @ UMass Amherst	UMass Amherst
Debanshi Jain	UG @ UMass Amherst	UMass Amherst
Maggie Tiernan ^[St18]	UG @ UMass Amherst	UMass Amherst
Bavly Mikhail	UG @ UMass Amherst	UMass Amherst
Isaiah Kuruvilla	UG @ UMass Amherst	UMass Amherst
Sasha Dicovitsky ^[St13, CP9, CP8]	UG @ UMass Amherst	UMass Amherst
Aarna Deshpande	UG @ UMass Amherst	UMass Amherst
Deepikaveni Venkatanarayanan	MSc @ UMass Amherst	UMass Amherst
Alexa Velazquez	UG @ UMass Amherst	Engineer, Arthrex
Om Tank ^[P48]	UG @ UMass Amherst	Grad Student @ CMU
Max McHugh ^[P48, I32, St17, St14, St10]	UG & MSc @ UMass Amherst	Grad Student @ UMass Amherst
Monil Bhavsar ^[P48]	UG @ UMass Amherst	UMass Amherst
Nathan Chang ^[P54]	UG @ UMass Amherst	Industry
Sean Morris ^[P48, St15]	UG & MSc @ UMass Amherst * undergraduate research award	PhD Student @ Yale University
Siddh Merchant	UG @ UMass Amherst	UMass Amherst
Art McLaughlin	UG @ UMass Amherst * Honors Thesis	Graduate Student, @ Boston University
Mary Esenther	UG @ UMass Amherst * Honors Thesis	Caterpillar
Favour Nakyazze ^[P48, Pat3]	UG & MSc @ UMass Amherst	Abbott

List of PhD Student Committees

Quan (Zach) Zhang	Co-advisor, RQE Committee, @ ECE, UMass Amherst
Xin Zhang	Member of Dissertation committee @MIE, UMass Amherst
Ningxi Du	Chair of the QE committee @ BME, UMass Amherst
Anna Su	Member of Dissertation committee @ BME, UMass Amherst
Vibha Balaji	Chair of the Dissertation committee @ BME, UMass Amherst
Zexi Wang	Chair of the QE committee @ BME, UMass Amherst
Yubo Zhang	Chair of the QE committee @ BME, UMass Amherst
Thomas Estella	Member of the QE committee @ BME, UMass Amherst
Huilu Bao	Member of the Dissertation committee @ MIE, UMass Amherst
Lijun Peng	Chair of the QE committee @ BME, UMass Amherst

Yu Zhao	Member of the Dissertation committee @ MSE, UMass Amherst
Phillip Varkey ^[P52, P43, St5, CP10]	External member, Dissertation Proposal @ ECE, UT Austin
Megan Baker	External member, Dissertation Proposal @ BME, UT Austin
Enrique Velasquez Morquecho	External member, Dissertation Proposal @ MIE, UT Austin

Prior to UMass Amherst

β – co-supervision [x] – results in peer-reviewed publication

Alena Sluzhbina	MSc @ Virtually	---
Ivan Prinko	MSc @ Virtually	Kyiv Academic University
Ning Liu ^[P52, P46, P41, P34, St5, Pat4]	PhD β @ UT Austin	Postdoc @ UT Austin
Neelotpala Kumar ^[P38, P37, I6, Pat2]	PhD β @ UT Austin	Postdoc @ UT Austin
TJ Spillers	RET @ UT Austin	School Teacher, Round Rock ISD
Melinda Wright	RET @ UT Austin	School Teacher, Killeen ISD
Jayanth RT ^[P51, P26]	MSc Thesis β @ UT Austin	PhD Student at UT Austin, Neuroscience
Zane Renee Johnson ^[P41, CP7]	Undergraduate @ UT Austin	Undergraduate @ UT Austin
Isabella Maya Goel	Undergraduate @ UT Austin	Undergraduate @ UT Austin
Sophie M Czelusta	Undergraduate @ UT Austin	Undergraduate @ UT Austin
Langyan Zhou	MSc Thesis @ UT Austin	Product Engineer at Texas Instruments
Justin Ko	MSc Thesis @ UT Austin	MSc Student @ UT Austin
Damilola Oshin ^[P21, CP5]	Visiting PhD β @ UT Austin	Lecturer at Covenant University
Alena Nederveld/Hall ^[P30, P27]	Undergraduate @ UT Austin	PhD Student @ UT Austin
Amy Quartaro	Undergraduate @ UT Austin	PhD at Virginia Tech and NASA
Keyon H Ahmadi	Undergraduate @ UT Austin	Consulting Analyst at Qvest.us
Jameson Kampfe ^[P30, P27]	Undergraduate @ UT Austin	MSc Student @ UT Austin
Jared McGee	Undergraduate @ UT Austin	PhD Student @ UT Austin
Nandu Koripally ^[P43, I6]	Undergraduate @ UT Austin	PhD Student @ UCSD
Maya Borowicz ^[P52, St5]	REU @ UT Austin	Undergraduate at Rice University
Jelena Stevanovic ^[P18]	PhD β @ FZ-Jülich	PhD Student @ FZ-Jülich
Viviana Rincón Montes ^[P18, P10, B1]	PhD β @ FZ-Jülich	Postdoctoral Research Associate at FZ-Jülich
Kagithiri Srikantharajah ^[P18, P10, B1]	PhD β @ FZ-Jülich	Scientific Coordinator at FZ-Jülich
Anastasia Svetlova ^[P24, P22]	PhD β @ FZ-Jülich	Postdoctoral Researcher at USC, USA
Mykola Fomin ^[P28]	MSc Thesis @ FZ-Jülich	PhD Student at University of Osnabrück
Dario Sarik ^[P9, P2, Pat1]	MSc Thesis @ FZ-Jülich	Senior Data Scientist, Frassnapf Holding
Pegah Shokoohimehr ^[P17, P10]	MSc Thesis @ FZ-Jülich	Process Engineer, Applied Materials
Matthis Ernst ^[P12, P10, P5]	MSc Thesis @ FZ-Jülich	Senior Consultant at Dr. Safaric Consulting

Max Brambach ^[P7]

BSc Thesis @ FZ-Jülich

PhD Student at University of
Zurich

Jaqueline Lange

BSc Thesis^β @ FZ-Jülich
