

6th Annual Georgia Tech Postdoctoral Research Symposium

Noon to 5 p.m., Thursday, September 19, 2019

Parker H. Petit Institute for Bioengineering and Bioscience (IBB)

Suddath Room and Atrium

Time	Event	Location
11:30 a.m.	Poster set-up	Atrium
12:00 - 1:30 p.m.	Lightning Talk Session I	Suddath Room
1:30 - 3:30 p.m.	Poster Presentations and Reception <ul style="list-style-type: none"> • Even numbers 1:30-2:30 p.m. • Odd numbers 2:30-3:30 p.m. 	Atrium
3:30 - 4:30 p.m.	Lightning Talk Session II	Suddath Room
4:45 p.m.	Award Presentations	Suddath Room

Lightning Talk Session I: 12:00 - 1:30 p.m.

	Title	Presenter	College
1.	Understanding the Dynamic Evolution of 2D-on-2D and 3D-on-2D Material Interfaces using In Situ Transmission Electron Microscopy	Pralav Shetty	Engineering
2.	Probing the relationship between cystic fibrosis related diabetes and lung function by analyzing the molecular fingerprint of breath	Yafeng Li	Sciences
3.	Swarm Intelligence Optimization based on Ferroelectric Spiking Neural Networks	Yan Fang	Engineering
4.	Seeing further means learning better? It depends on your sense of direction and memory capacity.	Qiliang He	Sciences

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5.	Economic Constraints in Aerospace Engineering Design Problems	Mohammed Hassan	Engineering
6.	A fast delay line for label-free biological imaging	Xavier Audier	Sciences
7.	A new low-energy method to terminate deadly arrhythmias	Ilija Uzelac	Sciences
8.	Emergence and Modulation of Proteases to Control Engineered Biological Machine Stability	Adeola Michael	Engineering
9.	A slippery situation: modelling surface melt in Antarctica	Sammie Buzzard	Sciences
10.	Wireless, Soft, Wearable Electronics for Quantitative Diagnostics of Cervical Dystonia	Young-Tae Kwon	Engineering
11.	Towards Predicting Relative Humidity Modulated Degradation of Nanoporous Zeolitic Imidazolate Frameworks by SO ₂	Souryadeep Bhattacharyya	Engineering

Lightning Talk Session II: 3:30 - 4:30 p.m.

	Title	Presenter	College
12.	Discovering genetic basis for production of ozone damaging polybromomethanes in an invasive macroalga <i>Asparagopsis taxiformis</i>	Hem Thapa	Sciences
13.	Humidity Sensing Through Tautomerism of a Covalent Organic Framework	Samik Jhulki	Sciences
14.	What Are They Talking About? The Importance of Quality Interaction in the Study Abroad Language-Learning Context	Adele Douglin	Liberal Arts
15.	Reducing Traffic Congestion with Smarter Traffic Signals	Gustav Nilsson	Engineering
16.	Direct damage to nucleotides by low energy electrons probed by Xray Photoelectron Spectroscopy	Sramana Kundu	Sciences
17.	What if more sleep isn't really what athletes need?	Sarah Barnes	Liberal Arts
18.	Study of a premixed flame propagating in a duct using a fully compressible solver and a low-Mach solver	Orlando Ugarte-Almeyda	Engineering
19.	Tuning color and conductivity for a sustainable future	Michel De Keersmaecker	Sciences
20.	Should I stay or should I go?	Pietro Pierpaoli	Engineering

Poster Presentations

	Title	Presenter	College
1.	Decision Making under Bounded Rationality: From Theory to Applications	Dipankar Maity	Engineering
2.	Watching an in crystal chemical transition in slow motion 3D	Hongnan Cao	Sciences
3.	Carbonated Based Solid Polyelectrolyte with High Conductivity and Chemical Stability via One Pot UV Polymerization & Crosslinking	Yubin He	Sciences
4.	Imaging the activation of low-boiling-point phase-change contrast agents in the presence of tissue motion using ultrafast inter-frame activation ultrasound imaging	Bowen Jing	Engineering
5.	Towards rapid and chemoselective arginine bioconjugation	Minghao Xu	Sciences
6.	Coproporphyrin decarboxylase coordinates the synthesis and uptake of heme in mycobacteria.	Rebecca Donegan	Sciences
7.	Discovering genetic basis for production of ozone damaging polybromomethanes in an invasive macroalga <i>Asparagopsis taxiformis</i>	Hem Thapa	Sciences
8.	Designing a Simulation Platform to Analyze the Interaction of Multiple Autonomous Converters with the Grid and Each Other	Sanaz Paran	Engineering
9.	Exploring RF Substrate Bias Effect on Ferroelectric HfZrOx Thin Film Atomic Layer Deposition	Jae Hur	Engineering
10.	Can a Brief Intervention Increase Responsiveness and Growth Support In Student Teams?	Chris Martin	Engineering
11.	Machine learning models for the lattice thermal conductivity prediction of inorganic materials	Lihua Chen	Engineering
12.	Distinct Nanoscale Interphases and Morphology of Lithium Metal Electrodes Operating at Low Temperatures	Akila Thenuwara	Engineering
13.	Ultrathin, Long-Term Stable, Solid State Electrode Enabled by Enhanced Interface Adhesion and Conformal Coating of AgCl	Hyoryoung Lim	Engineering
14.	Delivery of lysostaphin and BMP-2 to mitigate infection and facilitate bone regeneration in critical-sized segmental bone defects	Pranav Kalelkar	Engineering
15.	In-situ TEM nanomechanical testing	Saurabh Gupta	Engineering
16.	Grammar's Tough	Sandra McGury	Liberal Arts



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