

The Fall 2021 HiPerGator Symposium

Thursday, October 21

IN-PROGRESS RESEARCH SUPPORTED BY HIPERGATOR

LIGHTNING ROUND TALKS & POSTER SESSIONS

Attendance Open to All.

Presentations/Poster Sessions Open to Post-Docs and Students

Fall 2021 HiPerGator Symposium

Thursday, October 21, 2021

9:00 a.m. – 1:00 p.m.

Virtual Event

Presented by:



Symposium Agenda

- 9:00 AM** Welcome, Opening Remarks
Alicia Turner
Director – UFIT Customer Experience and Resource Planning
- 9:10 AM** Overview of UF AI Initiative
David P. Norton, Ph.D.
Vice President for UF Research
- 9:20 AM** Keynote: The Experience of Building GatorTron–The Largest Clinical Language Model
Jiang Bian, Ph.D.
Director of Cancer Informatics and eHealth Core – UF Health Cancer Center
Associate Professor – Department of Health Outcomes and Biomedical Informatics, College of Medicine
- 9:40 AM** Lightning Talks
- 9:40 AM Natural Language Analysis of Digital Collections: Baldwin Library of Historical Children’s Literature and EDIS Agricultural Extension Publications
Howard Beck, Ph.D., Professor – Department of Agricultural and Biological Engineering, College of Agricultural and Life Sciences
- 9:50 AM AI-driven Movement Classification and Analysis across Clinical and Cultural Application Areas
Wenbin Guo, Ph.D., Postdoctoral Associate – UF Digital Worlds Institute, College of the Arts
- 10:00 AM Interdisciplinary AI for Spatiotemporal Data in Earth Science Applications
Zhe Jiang, Ph.D., Director of Interdisciplinary Data Science and AI Lab, Assistant Professor – Department of Computer and Information Science and Engineering, Herbert Wertheim College of Engineering
- 10:10 AM An End-to-end Artificial Peptide Aptamer Generation Strategy for Driving Precision Drug Delivery
Zachary Greenberg, Graduate Research Assistant – He Laboratory and Ph.D. Student – College of Pharmacy
- 10:20 AM Machine Learning Potentials for Amorphous Materials Modeling and Simulations
Jun Jiang, Ph.D., Assistant Scientist – Department of Physics, College of Liberal Arts and Sciences
- 10:30 AM** 10-Minute Break

- 10:40 AM DYNAMITE: A Phylogenetic Tool for Identification of Dynamic Transmission Epicenters
Brittany Rife Magalis, Ph.D., Research Assistant Scientist – Department of Pathology, Immunology and Laboratory Medicine, College of Medicine
- 10:50 AM Exploring the Structure of Submarine Flows Through Massive, High-fidelity Simulations
Santiago Zúñiga, Graduate Student – Department of Mechanical and Aerospace Engineering, Herbert Wertheim College of Engineering
- 11:00 AM Automatic, Accelerated Semiconductor Characterization from Time-Resolved Photoluminescence Data through Iterated Bayesian Inferencing
Calvin Fai, Graduate Student – Department of Chemical Engineering, Herbert Wertheim College of Engineering
- 11:10 AM A Material Informatics Approach to Genetic Algorithms
Jason Gibson, Ph.D. Student – Department of Materials Science and Engineering, Herbert Wertheim College of Engineering
- 11:20 AM Approximate Bayesian Computation for Immune Parameters Estimation of Campylobacter Infection Dynamics in Young Children from Low-resources Settings
Nitya Singh, Ph.D., Assistant Scientist – Emerging Pathogens Institute and Department of Animal Sciences, College of Agricultural and Life Sciences
- 11:30 AM Multiple Control of Few-layer Janus MoSSe Systems
Shuanglong Liu, Ph.D., Postdoctoral Researcher – Department of Physics, College of Liberal Arts and Sciences
- 11:40 AM Symmetry-preserving Deep Learning for Enhanced Euler-Lagrange Simulations
Bhargav Sriram Siddani, Ph.D. Student – Department of Mechanical and Aerospace Engineering, Herbert Wertheim College of Engineering
- 11:50 AM Informed Consent Question Answering
Zachery Steven Utt, Undergraduate Student – Department of Computer and Information Science and Engineering, Herbert Wertheim College of Engineering
- 12:00 PM** 10-Minute Break
- 12:10 PM** Poster Session
- DYNAMITE: A Phylogenetic Tool for Identification of Dynamic Transmission Epicenters
Brittany Rife Magalis, Ph.D., Research Assistant Scientist – Department of Pathology, Immunology and Laboratory Medicine, College of Medicine
- Approximate Bayesian Computation for Immune Parameters Estimation of Campylobacter Infection Dynamics in Young Children from Low-resources Settings
Nitya Singh, Ph.D., Assistant Scientist – Emerging Pathogens Institute and Department of Animal Sciences, College of Agricultural and Life Sciences

Multiple Control of Few-layer Janus MoSSe Systems

Shuanglong Liu, Ph.D., Postdoctoral Researcher – Department of Physics, College of Liberal Arts and Sciences

Automatic, Accelerated Semiconductor Characterization from Time-Resolved Photoluminescence Data through Iterated Bayesian Inferencing

Calvin Fai, Graduate Student – Department of Chemical Engineering, Herbert Wertheim College of Engineering

User Requirements for Augmented Reality-based Bridge Principal Inspection

Sameer Mohata, Graduate Research Assistant – M.E. Rinker, Sr. School of Construction Management, College of Design, Construction and Planning

1:00 PM

2021 Fall HiPerGator Symposium Concludes