

WEDNESDAY, JUNE 12, 2019

Poster Session #1

- 1. Bayesian Inversion of MT, and CSEM, and Airborne TEM Data to Image Subglacial and Submarine Groundwater**
Daniel Blatter, Lamont-Doherty Earth Observatory, Columbia University
Kerry Key, Lamont-Doherty Earth Observatory, Columbia University
Anandaroop Ray, Geoscience Australia
Chloe Gustafson, Lamont-Doherty Earth Observatory, Columbia University
- 2. Mapping and Classification of Volcanic Deposits Using Multi-Sensor Unoccupied Aerial Vehicles**
Einat Lev, Lamont-Doherty Earth Observatory, Columbia University
Brett B. Carr, Lamont-Doherty Earth Observatory, Columbia University
Kristen A. Bennett, USGS Astrogeology Science Center, Flagstaff, AZ
Christopher S. Edwards, Northern Arizona University
S. Adam Soule, Woods Hole Oceanographic Institution
Silvia Vallejo Vargas, Instituto Geofisico, Escuela Politecnica Nacional, Ecuador
- 3. Using Convolutional Neural Networks to Identify Fracture Patterns in Satellite Imagery of Antarctica**
Ching-Yao Lai, Lamont-Doherty Earth Observatory, Columbia University
Harold Li, Jonathan Kingslake, Lamont-Doherty Earth Observatory, Columbia University
Pierre Gentine, Data Science Institute, Columbia University
- 4. An Unsupervised Machine-Learning Approach to Understanding Seismicity at an Alpine Glacier**
Theresa Sawi, Lamont-Doherty Earth Observatory, Columbia University
Meredith Nettles, Ben Holtzman, Lamont-Doherty Earth Observatory, Columbia University
John Paisley, Columbia University
Fabian Walter, ETH Zurich, Switzerland
- 5. Can a Neural Network Trained with a Climate Model Inform the Real World?**
Luke Gloege, Lamont-Doherty Earth Observatory, Columbia University
Galen McKinley, Lamont-Doherty Earth Observatory, Columbia University
Lingyun Gao, Colin Goyette, Manksh Gupta, Yuriy Loukachev, Monica Yan, Columbia University
- 6. Online Climate Data Services: IRI Climate Data Library**
Aaron Kaplan, International Research Institute for Climate and Society, Earth Institute, Columbia University
M. Benno Blumenthal, M. Bell, X. Chourio, R. Cousin, J. del Corral, I. Khomyakov, A. Vadillo, International Research Institute for Climate and Society, Earth Institute, Columbia University
- 7. Traffic Noise as a Proxy for Air Pollution Exposure Models: the Case Study on Bicycle Commuters in New York City**
Qiang Yang, Lamont-Doherty Earth Observatory, Columbia University
Luc Dekoninck, Ghent University
Haokai Zhao, Columbia University
James Ross, Lamont-Doherty Earth Observatory, Columbia University
Darby Jac, Mailman School of Public Health, Columbia University
Steven Chillrud, Lamont-Doherty Earth Observatory, Columbia University
- 8. Scientific Literature Mining for Experimental Information in Materials Design**
Gilchan Park, Brookhaven National Laboratory
Line Pouchard, Brookhaven National Laboratory
- 9. Quantum Computation for Early Universe Cosmology**
Alex Kaufman, University of Puget Sound
Daniel Sundry, California State Stanislaus
Michael McGuigan, Brookhaven National Laboratory
- 10. Subspace Shapes: Enhancing High-Dimensional Subspace Structures via Ambient Occlusion Shading**
Klaus Mueller, Stony Brook University
Bing Wang, Stony Brook University
- 11. CDS and Data Science at NYU**
Sebastian Schelter, Center for Data Science, New York University
Julia Kempe, Djellel Difallah, Tassos Noulas, Center for Data Science, New York University
- 12. Quantum Computation of Nanosheets in a Background Magnetic Field for External Control of Nanosystems**
Raffaele Miceli, Stony Brook University
Michael McGuigan, Brookhaven National Laboratory
- 13. Manifold Denoising Using Distance Functions**
Panchali Nag, Duke University
Shahar Z. Kovalsky, Duke University

2019 NY SCIENTIFIC DATA SUMMIT: POSTER PRESENTATIONS

THURSDAY, JUNE 13, 2019

Poster Session #2

- 1. Efficiently Computing Recommendations from Streaming Data**
Sebastian Schelter, *Center for Data Science, New York University*
Ufuk Celebi, Freie Universitat Berlin, Germany
Ted Dunning, MapR Technologies
- 2. Deep Learning for Motor Imagery Classification based on EEG Data**
Yijing Feng, *Columbia University*
Euiyoung (Jim) Chung, Columbia University
Xiaofu He, Columbia University, NY State Psychiatric Institute
- 3. Population Estimation on Crowdsourcing Platforms**
Djellel Difallah, *Center for Data Science, New York University*
Elena Filatova, The Graduate Center, CUNY
Panos Ipeirotis, Leonard N. Stern School of Business, New York University
- 4. Exploiting Population Activity Dynamics to Predict Urban Epidemiological Incidence**
Anastasios Noulas, *Center for Data Science, New York University*
Gergana Todorova, Lancaster University, United Kingdom
- 5. Classification of Autism Spectrum Disorder Based on Brain Imaging Using Convolutional Neural Networks**
Qiang Wang, *Columbia University*
Jongwoo Choi, Columbia University
Xiaofu He, Columbia University, NY State Psychiatric Institute, Data Science Institute
- 6. Functional Connectivity Differences Between PTSD Patients with and without Comorbid Major Depressive Disorder Using Machine Learning**
Xi Zhu, *Columbia University Medical Center, NY State Psychiatric Institute*
Sigal Zilcha-Mano, NY State Psychiatric Institute
Benjamin Suarez-Jimenez, Columbia University Medical Center, NY State Psychiatric Institute
Amit Lazarov, Tel Aviv University, Israel
Yuval Neria, Columbia University Medical Center, NY State Psychiatric Institute
Bret Rutherford, NY State Psychiatric Institute
- 7. Identification of Smoking Specific Gene Expression Biomarkers for Lung Cancer Using Elastic Network Lasso Model**
Avinash Barnwal, *Stony Brook University*
- 8. Dual Readout for Liquid Argon Time Projection Chamber Neutrino Detectors**
Jose I. Crespo-Anadon, *on behalf of the MicroBooNE/SBND collaborations, Columbia University*
- 9. Quantum Computation and Visualization of Carbon Single and Double Nano-Rings**
Joseph Peltroche, *CUNY Queens College*
Michael McGuigan, Brookhaven National Laboratory
- 10. Effective Matrix Model for Nuclear Physics on a Quantum Computer**
Raffaele Miceli, *Stony Brook University*
Michael McGuigan, Brookhaven National Laboratory
- 11. Thermo Field Dynamics on a Quantum Computer**
Raffaele Miceli, *Stony Brook University*
Michael McGuigan, Brookhaven National Laboratory
- 12. Deep Learning for Gamma-Ray Image Analysis with CTLearn**
Aryeh Brill, *Columbia University*
Qi Feng, Barnard College
T. Brian Humensky, Columbia University
Bryan Kim, UCLA
Daniel Nieto, Tjark Miener, Universidad Complutense de Madrid, Spain
- 13. Stacking with Neural Network for Cryptocurrency Investment**
Avinash Barnwal, Hari Pad Bharti, Aasim Ali, *Inncretech Inc., Princeton*
Vishal Singh, Inncretech Inc., Princeton