

**Program for Math + X Symposium on Inverse Problems and Deep Learning in Space Exploration
Rice University, Bioscience Research Collaborative Building, Houston, TX
January 23-25, 2019**

INVERSE PROBLEMS, GENERAL RELATIVITY

1. Spyros Alexakis m (Toronto) geometry/GR (alexakis@math.utoronto.ca)
2. Lydia Bieri f (Michigan) geometric analysis/GR (lbieri@umich.edu)
3. Joonas Ilmavirta m (NA) geometry/inverse problems (joonas.ilmavirta@jyu.fi)
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5. (KEYNOTE) Stan Osher m (UCLA) applied mathematics/ manifold learning (sjo@math.ucla.edu)
6. Gabriel Paternain m (Cambridge) geometry/inverse problems (g.p.paternain@dpmms.cam.ac.uk)
7. Andras Vasy m (Stanford) microlocal analysis/inverse problems/GR (andras@stanford.edu)
8. Reinhard Heckel m (Rice) deep learning /inverse problems

DEEP LEARNING

1. Taco Cohen m (Amsterdam/ Qualcomm) (taco.cohen@gmail.com)
2. Kyle Cranmer m (NYU) deep learning/particle physics (kc90@nyu.edu)
3. Rob Fergus m (Facebook/NYU) deep learning/astronomy (fergus@cs.nyu.edu)
4. Meire Fortunato f (Deepmind) deep reinforcement learning/physics (meirefortunato@google.com)
5. David Hogg m (Flatiron) (david.hogg@nyu.edu)
6. (KEYNOTE) Jitendra Malik m (Berkeley) computer vision/machine learning (malik@eecs.berkeley.edu) Assistant=Angie (angie@eecs.berkeley.edu)
7. Danilo Rezende m (DeepMind) deep generative models/Physics (daniolor@google.com)
8. Soledad Villar f (NYU) inverse problems on graphs/deep learning (soledad.villar@nyu.edu)
9. Lenka Zbedorova f (ENS Paris) statistical physics/Deep learning (lenka.zbedorova@gmail.com)

SPACE EXPLORATION

1. (KEYNOTE) Michael Brown m (CalTech) ninth planet/asteroids (mbrown@caltech.edu)
2. Julien de Wit m (MIT) exoplanets (jdewit@mit.edu)
3. Gordon Emslie m (W Kentucky) solar flares/host stars (gordon.emslie@wku.edu)
4. Eric Ford m (PSU) space exploration/statistical learning (ebf11@psu.edu)
5. Philippe Lognonn\`{e} m (IPGP Paris) Mars/InSight/seismology (lognonne@ipgp.fr)
6. (KEYNOTE) Sara Seager f (MIT) exoplanets/life (profseager@mit.edu)
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7. Tilman Spohn m (DLR, Berlin) Mars/InSight/dynamics (Tilman.Spohn@dlr.de)