

SLIM Group Overview

Seismic Laboratory for Imaging and Modeling
Earth & Ocean Sciences
University of British Columbia

Faculty Felix Herrmann (Ph.D.)



- * M.Sc. & Ph.D., Delft University, Netherlands
- + Seismic imaging and inversion
- Harmonic analysis (Wavelets)
 in geophysical inverse problem
- + Scaling (Multi-fractal) concepts



Additional faculty Michael Friedlaender (Ph.D.)

- Fellow Argonne
- + B.A., Cornell, MSc. & Ph.D., Stanford
- Numerical optimization
- * Numerical linear algebra
- Design & implementation of constrained optimization
- * Scientific computing





Additional faculty Ozgur Yilmaz (Ph.D.)



- * M.A., Bogazici University, Turkey
- + Ph.D., Princeton
- * Applied harmonic analysis
- Signal processing
- Information theory



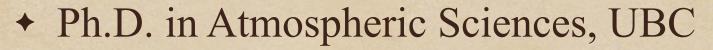
Visiting faculty Deli Wang (Ph.D.)



- * M.Sc., Changchun College of Geology, China
- + Ph.D., Jinlin University, China
- + Seismic imaging and inversion
- + Seismic anisotropy
- Forward modeling
- Multiple attenuation



Additional Faculty Henryk Modzelewski (Ph.D.)



- * Scientific programming
 - High-Performance Computing
 - Development: MPI and Python
- System administration



Post-Doc. Fellow Challa S. Sastry



- + Ph.D. in Mathematics, IIT, India
- Wavelets & Applications
- Computerized Tomography
- Image Analysis



Ph.D. student Peyman Moghaddam



- * B.Sc. & M.Sc. in Electrical Eng., Tehran Polytechnic, Iran
- * Statistical Signal Processing
- Imaging Optimization
- + Parallel Programming
- + Migration



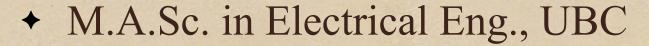
Ph.D. student Gilles Hennenfent

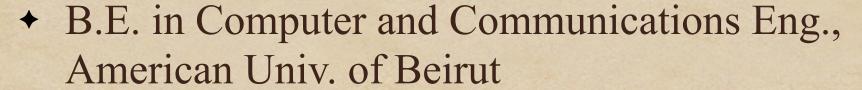


- * DEA (MSc level) in Photonics, Image & Cybernetics, Universite Louis Pasteur, France, 2000
- * Engineer in Applied Physics, Ecole Nationale Superieure de Physique de Strasbourg,(2000-2003)
- + Data regularization



Ph.D. Student Rayan Saab





- + Blind Source Separation
- Statistical Signal Processing
- Discrete Optimization
- + Seismic and Biomedical Signal Processing
 Seismic Laboratory for



Imaging and Modeling

Ph.D. Student Ewout Van Den Berg



- + B.Sc., and M.Sc. in Computer Sciences, Delft
- + Ph.D. in Computer Sciences, UBC
- + L1 minimization
- Sparse signal recovery
- + Seismic signal processing



M.A.Sc. Student Carson Yarham



- * B.Sc. in Honors Geophysics, UBC
- + Signal Separation
- * Matlab algorithm development
- + Curvelet domain filtering



M.A.Sc. Student Mohammad Maysami



- + B.Sc. in Petroleum Eng., Sharif Univ., Tehran
- + B.Sc. in Electrical Eng., Sharif Univ., Tehran
- * M.A.Sc in Geophysics, UBC
- + Seismic Signal Characterization
- + Well Log Seismic Data Tie



M.A.Sc. Student Vishal Kumar



- * M.Sc. in Exploration Geophysics, IIT.
- + Joined to SLIM recently



M.Sc. Student Evgeniy Lebed



- * B.Sc. in Mathematics (honors) from Simon Fraser University
- * M.Sc. in Math, UBC
- + Multidimensional signal decomposition



Scientific Programmer Cody Brown



+ B.Sc., Computer Science, UBC



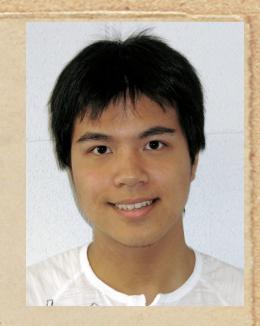
Summer Co-Op Sean Ross-Ross



- Undergrad in Computer Science, UBC
- + Joined SLIM in 2006
- * Software Development
- * Development of SLIMpy



Summer Co-Op Tim Lin



- * 3rd year Undergraduate in Hon. Physics, UBC
- + Joined SLIM in 2006 as summer co-op student
- Compressed Wavefield Migration and Imaging

