



Academic Matchmaking Event

University of Groningen & Universidad de Chile

Subtheme: Data Science, Mathematics & Astronomy

- Date: Tuesday & Wednesday 24-25 September 2019
- Location: Faculty Room, Bernoulliborg (Zernike Campus), Faculty of Science & Engineering, University of Groningen
- More information: Dr Cristóbal Bertoglio: c.a.bertoglio@rug.nl

Tuesday 24 September 2019

9:30 - 10:30 Welcome coffee

10:30 - 12:00 Electrical, Industrial Engineering, Computer Science

- Patricio Mena (DIE,UCH): Astronomical Instrumentation at UChile: The Millimeter Wave Laboratory
- Andrey Barishev (KI, RUG): Submillimeter instrumentation development for Atacama Large Millimeter Telescope
- Richard Weber (DII, UCH): Data Science at UChile: Some research topics and current projects
- Maria Cecilia Rivara (DCC, UCH): Triangulation algorithms and applications to science, engineering, medicine, visualization and geographical modeling

12:00 - 13:00 Lunch

13:00 - 14:00 Sustainability

- Luis Vargas (DIE,UCH): Energy, Sustainability and Complexity Systems
- Alexander Lazovik (BI, RUG): Sustainable Buildings and Beyond

14:00 - 15:30 Biomedical

- Marco Grzegorzcyk (BI, RUG): Advanced dynamic Bayesian network models for network structure learning
- Steffen Härtel (Medicine,UCH): My Data in Life & Science: From Scientific & Biomedical Imaging to Medical Informatics, and Health Information Systems in Chile and the Region
- Kerstin Bunte (RUG): Mechanistic machine learning - combining the explanatory power of dynamic models with the predictive power of Machine Learning
- Peter van Ooijen (UMCG, RUG): Deep learning applications in radiological imaging for detection and segmentation.

15:30 - 17:00 Biomedical

- Axel Osses (DIM,UCH): Inverse problems in medical imaging
- Jiri Kosinka (BI, RUG): Geometric modeling - mathematics and applications



- Andrés Escala (DAS, UCH): On the mathematical formulation of Biological Laws: Reformulation of the Metabolic Rate Relation
- Cristóbal Bertoglio (BI, RUG): Image-based modeling of the cardiovascular system

17:00 - 18:00 Individual meetings

18:00 Dinner (informal)

Wednesday 25 September 2019

9:00 - 12:00 Individual meetings

12:30 - 14:00 Lunch

14:00 - 15:00 Astronomy & Data Science

- Reynier Peletier (KI, RUG): The SUNDIAL project
- Axel Osses (DIM, UCH): Inverse problems in imaging in astronomy
- Kerstin Bunte (BI, RUG): Finding low dimensional structures in big data

15:00 - 16:00 Astronomy

- Valentino Gonzalez (DAS, UCH): tba
- Pratika Dayal (KI, RUG): The first billion years of the Universe
- Andrés Escala (DAS, UCH): Unveiling the role of galactic rotation on star formation.

17:00 - 18:00 Individual meetings

19:00 Closing Dinner for Chilean delegates