

Biomaterials Research Centre's Annual Day

"Biomaterials meet AI"

- 9:00-9:30 **Registration + Coffee**
- 9:30-9:40 **Welcoming address**
Anders Palmquist, PhD, Assoc. Prof., Department of Biomaterials, Inst. of Clinical Sciences, Sahlgrenska Academy at University of Gothenburg, Sweden. Chair of Biomaterials Research Centre (BRC).
- 9:40-10:10 **"Surface mediated contact activation"**
Pentti Tengvall, Prof. emeritus, FBSE, Department of Biomaterials, Inst. of Clinical Sciences, Sahlgrenska Academy at University of Gothenburg, Sweden
- 10:10-10:25 **Short break**
- 10:25-11:05 **"Machine learning as a tool for the natural sciences: Opportunities and challenges"**
Giovanni Volpe, Assoc. Prof. Physics Department, University of Gothenburg, Sweden
- 11:05-11:45 **"Digital image processing and analysis as a tool in life science"**
Anna Klemm, Dr, BiImage Analyst, SciLifeLab - BiImage Informatics Facility, Department of Information Technology Uppsala, Sweden
- 11:45-13:00 **Lunch**
- 13:00-13:40 **"Decoding motor volition for neuromusculoskeletal limb prostheses"**
Max Ortiz, Assoc. Prof., Chalmers University of Technology, Department of Electrical Engineering, Gothenburg, Sweden.
- 13:40 -14:20 **"Deep learning for interpreting fracture radiographs"**
Max Gordon, Orthopaedic surgeon, Department of Clinical Sciences at Danderyd Hospital, Division of Orthopaedics, Karolinska Institutet, Stockholm, Sweden.
- 14:20-15:00 **"Trusting AI: on the risks and opportunities of automatizing human judgment and decision-making"**
Karl de Fine Licht, PhD Practical Philosophy, Research Institutes of Sweden, The built environment, Gothenburg, Sweden. Chalmers University of Technology, Technology Management and Economics, Gothenburg, Sweden
- 15:00-16:00 **Coffee+ Mingle**

<https://brc.org.gu.se/>

Welcome!