
CURRICULUM VITAE

Jon Sparring, Professor

May 28, 2025

Profile

Jon Sparring (born September 8, 1969) is a researcher in computer science, with a focus on mathematical image processing, information theory, and artificial intelligence. He is particularly interested in interdisciplinary research and, over the past decade, has concentrated on algorithms for microscope image processing especially for reconstructing and analysing subcellular geometric structures. His theoretical foundation lies in scale-space theory, and his recent interests include the information content of overlapping histograms (linked to convolutional neural networks) and persistent homology (for analysing object shapes in AI-generated segmentations).

Education

- **1998 (December):** Ph.D. in Image Processing, Computer Science, University of Copenhagen
- **1995:** Master of Science in Computer Science, University of Copenhagen
- **1992:** Bachelors in computer science and chemistry, University of Copenhagen

Employment

- **2018–present:** Professor, Medical Image Processing, DIKU
- **2003–2018:** Associate Professor, DIKU
- **2000–2003:** Assistant Research Professor, 3D-Lab, School of Dentistry, University of Copenhagen
- **2012–2016:** Co-founder and CRO, DigiCorpus Aps, Denmark
- **2012–2013:** Visiting Professor, School of Computer Science, McGill University, Montreal, Canada
- **2008–2009:** Part-time Senior Researcher, Nordic Bioscience A/S, Denmark

Professional Activities

- **2025:** 1-month visiting researcher at University College London
- **2022–present:** Associate Editor, *Frontiers in Computer Science*
- **2021–present:** Member, Euro Bioimaging Expert Group on Image Data
- **2018–present:** Board Member, Danish Bioimaging Network
- **2018–present:** Deputy Head, Center for Quantification of Imaging Data from MAX IV
- **2007–2012, 2015–2019, 2021:** Deputy Head for Research, DIKU
- **2017–2024:** Head of First-Year BSc Teaching Team
- **2003–present:** Accountant, Danish Association for Automatic Recognition of Patterns

Teaching Activities (Last 5 Years)

- **2025-present:** *Linear Algebra for Computer Scientists* (Co-teaching, BSc 7.5 ECTS)
- **2016-present:** *Programming and Problem Solving* (Co-teaching, BSc, 15 ECTS)
- **2021–2024:** *Signal and Image Processing* (Co-teaching, MSc, 7.5 ECTS)
- **2018–2022:** *Biological Imaging* (Co-teaching, MSc, 7.5 ECTS)
- **2019–2022:** *Big Data in Biotechnology* (Co-teaching, BSc, 7.5 ECTS)
- **2018–present:** *Cross-Institutional Bioimaging* (Co-teaching, PhD, 10 ECTS)
- **2020–present:** *DIKU-DTU-(AAU) PhD Summer Schools* (Organising, PhD, 3 ECTS)

Academic Awards and Honours

- **2011 & 2020: Department's Teacher of the Year**, Department of Computer Science, University of Copenhagen
- **2015: Front Page Feature**, *Cytometry*, Vol. 87, No. 9
- **2012: Best Paper Award**, IPMI Conference
- **1995: Nominated (1 of 3) for Best Paper**, Scandinavian Conference on Artificial Intelligence (SCAI)

Grants (Last 5 Years)

- **2024-2026:** Deep Learning Dynamic Graphs for Food Microstructures (Delifood), Villum fonden, DKK 2,998,942 – PI with Mathias Porsmose Clausen, Southern University of Denmark – my part is 1 postdoc for 1.5 years
- **2022-2027:** *Danish BioImaging Infrastructure (DBI-INFRA)*, DKK 49.7 M – Co-PI – my part is 1 research assistant for 5 years
- **2023–2025:** *AI Theory and Practice in Vision Technologies*, Ministry of Higher Education and Science, DKK 1,076,977 – de-facto PI – my part is a travel grant shared with 2 from my department and 3 from School of Computer Science, McGill University
- **2018–2023:** *Center for Quantification of Imaging Data from MAX IV (QIM)*, Region H, DKK 6,500,000 – Co-PI – my part is 1 research assistant for 3 years
- **2015–2020:** *Centre for Stochastic Geometry and Advanced Bioimaging (CSGB)*, 2 x Velux Foundation, DKK 30,000,000 – Participant – my part is 2 PhD students
- **2016–2021:** *MAX4Imager: Quantitative Analysis of Clinical Synchrotron Images*, Region, – Participant – my part is 1 PhD student