

Curriculum Vitae

Personal Data

Full name: **Kim Steenstrup Pedersen**
Born: May 15th 1973, Roskilde, Denmark
Civil status: Married and father of 3 children
Nationality: Danish
Home address: Volosvej 4, 2300 København S
Current employment: Professor, Dept. of Computer Science (DIKU) & Natural History Museum of Denmark (NHMD), University of Copenhagen
Home page: <https://kimstp.github.io/>

Educational Background

03/2003 Ph.D. from the Department of Computer Science (DIKU), University of Copenhagen, Denmark.
2001 Half year visit with Prof. David Mumford at Div. of Applied Math., Brown University, USA.
09/1999 M.Sc. in Computer Science, the Department of Computer Science, University of Copenhagen.
1997 B.Sc. in Computer Science, the Department of Computer Science, University of Copenhagen.

Employment

08/2021 – present Professor, Department of Computer Science (DIKU) & Natural History Museum of Denmark (NHMD), University of Copenhagen, Denmark
08/2021 – present Curator of the digital collections, Natural History Museum of Denmark, University of Copenhagen, Denmark
03/2012 – present Co-founder, co-owner and CTO of DigiCorpus ApS, <http://www.digicorpus.com>
03/2012 – present Co-founder, co-owner and CEO of Schroll Pedersen Holding ApS
01/2007 – 07/2021 Associate Professor, Department of Computer Science, University of Copenhagen, Denmark
04/2003 – 12/2006 Assistant Professor, Department of Innovation, IT University of Copenhagen, Denmark
01/2003 – 03/2003 Assistant Research Professor under the SNF grant “Computing Natural Shape” at the Department of Computer Science, University of Copenhagen, Denmark
01/2000 – 12/2002 Ph.D. student at Department of Computer Science, University of Copenhagen, Denmark
02/1999 – 09/1999 Part time research programmer in medical image analysis at Danish company Pronosco A/S
01/1997 – 01/1999 Part time software developer and project manager at Danish company ELK, ApS

Periods of leave

11/2015 – 01/2016 3 month paternity leave
11/2008 – 01/2009 3 month paternity leave
08/2004 – 10/2004 3 month paternity leave
10/1999 – 12/1999 3 month military service, Beredskabscenter Bornholm, Allinge

Managerial & administrative experience

08/2021 – present Head of Digital Collections Section, Natural History Museum of Denmark, University of Copenhagen
08/2021 – present GBIF Head of Delegation for Denmark
2018 – 08/2021 Head of Section, Section for Image Analysis, Computational Modelling and Geometry (IMAGE), Department of Computer Science, University of Copenhagen
2016 – 2018 Head of Section, Image Section, Department of Computer Science, University of Copenhagen
2012 – present CTO of DigiCorpus ApS, <http://www.digicorpus.com>
2012 – present CEO of Schroll Pedersen Holding ApS
2011 Leadership Development for Heads of Research Groups, University of Copenhagen, Denmark
2009 – 2012 Deputy Head of Department for Teaching, Department of Computer Science, University of Copenhagen
2008 – 2009 Member of the teaching committee at Department of Computer Science, University of Copenhagen
2003 – 2006 Elected VIP representative in the study programme committee (fagudvalg) for the Media Technology and Games (MTG) study programme (ITU)
2003 – 2006 Member of the MTG interim committee for establishing the study programme (ITU)

Research interests

My primary research interests include topics from computer vision, image analysis and machine learning, especially fine visual classification and grouping, Interpretability, tracking and motion models. I am currently working with applications of computer vision within natural history collections, biodiversity monitoring, agriculture and food production.

Research project funding

- Expanding the Tree of Life through a digital view of museum collections — PHYLORAMA (**PI**, Funded by UCPH Data+ (50%) and several external sources, **DKK 4.894.916**, 10/2020 – present)
- Deep Learning and Automation of Imaging-Based Quality of Seeds and Grains (**Co-PI**, DIREC Bridge project with DTU Compute, Foss Analytical A/S for 1 Ph.D. scholarship, **DKK 2.720.000**, expected 02/2021 - 02/2023)
- ClimbAlong (**PI**, industrial collaboration with NorthTech ApS funded by AI Denmark, **DKK 123.000**, 2021)
- External consultancy FaunaPhotonics A/S (**PI**, funded by the company, **DKK 158.750**, 2019 – 2021)
- 3 yr. Postdoc in Big Data and Machine Learning in Food Science and Food Processing Technology (**PI**, Funded by DIKU, **DKK 600.000**, Dept. of FOOD, **DKK 600.000**, and Foss Analytical A/S, **DKK 600.000**, 2019 – present)
- Railroad assets mapping (**Co-PI**, Innovation Fond DK Industrial phd with COWI A/S, **DKK 2.000.000**, 01/2017 - 04/2020)
- InnoBooster consultancy for Bilagscan (**Co-PI**, Innovation Fond DK, **DKK 100.000**, 2017)
- Surveying the sky using machine learning — SkyML (**Co-PI**, DFF FNU (12-125149) project 2 grant, **DKK 4.963.991**, 2013 - 2016)
- InnoBooster consultancy for Snaplytics (**Co-PI**, Innovation Fond DK, **DKK 105.000**, 2016)
- Droner til monitorering af flerårigt ukrudt i korn (**Co-PI**, Miljøstyrelsen, Miljøministeriet, **DKK 403.401**, 2013 - 2016)
- Human Motion Imitation (HUMIM) (**PI**, internally funded project 2 Phd scholarship (SCIENCE, UCPH), **DKK 3.000.000**, 2009 – 2012)
- VISIONTRAIN (**Co-PI**, EU funded Marie Curie Training Network with 11 international partners, **DKK 2.530.127**, 2005 – 2009)
- Natural Image Sequence Analysis (**Co-PI**, DFF FNU framework grant no. 272-05-0256, **DKK 300.000**, 2006 – 2008)
- French Embassy in Denmark grant for collaboration with P. Pérez, E. Mémin, and F. Lauze (**Co-PI**, **DKK 18.000**, 2008 – 2009)

Selected international and national collaborations (present and past):

Affiliated with the AI Centre, Faculty of Science, University of Copenhagen.
Alexey Solodovnikov, the Natural History Museum of Denmark, University of Copenhagen.
Anders Drud Jordan, the Natural History Museum of Denmark, University of Copenhagen.
David R. Nash, Department of Biology, University of Copenhagen.
Jesper Rasmussen, Dept. of Plant and Environmental Sciences, University of Copenhagen.
Klavs Martin Sørensen, Dept. of Food, University of Copenhagen.
Lars Nørgaard, Foss Analytical A/S.
Lars Kai Hansen, DTU Compute, DTU, Denmark
Anders Dahl, Technical University of Denmark.
Marco Loog, Delft University of Technology, Holland.
Anne Cuzol, Vannes, France.
Remco Duits, Technical University of Eindhoven, Holland.
Ann B. Lee, Carnegie Mellon University, USA.
David Mumford, Brown University, USA.

Ph.D. / Post Doc. Supervision and Master thesis production

Currently supervising 2 Ph.D. students and 1 Post Doc researcher. Previously supervised 6 Ph.D. student and 4 Post Doc. researchers. Organized and taught on 8 different Ph.D. level courses and seminars. Have supervised and completed more than 69 Master theses.

Publications

Total number of publications in; international peer reviewed journals (15), peer reviewed conferences and workshops (36), other publications including special issues, proceeding books, and Ph.D. thesis (22).
Google Scholar profile: <https://scholar.google.dk/citations?user=RzH2vKQAAAAJ>
ORCID <http://orcid.org/0000-0003-3713-0960>