

Lea Müller

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Education

Doctor of Philosophy in Computer Science

2019 – 2024

Max Planck Institute for Intelligent Systems; Summa Cum; Advisor: Michael Black

Tübingen, Germany

Received the MPI-IS Outstanding Female Doctoral Student Prize Honorable Mention

Master of Science in Computational and Data Science

2016 – 2018

University of Jena; GPA 4.0; Advisor: Joachim Denzler

Jena, Germany

Received the Exam Award of the Dean

Bachelor of Science in Mathematics (Minor: Psychology)

2011 – 2015

University of Heidelberg; Advisor: Rainer Dahlhaus

Heidelberg, Germany

Employment

Berkeley AI Research (BAIR)

2024 – present

Postdoctoral Researcher; Advisor: Angjoo Kanazawa and Jitendra Malik

Berkeley, CA, USA

Berkeley AI Research (BAIR)

06/2022 – 12/2022

Visiting Researcher; Advisor: Angjoo Kanazawa

Berkeley, CA, USA

Computer Vision Group, University of Jena

10/2017 – 02/2018

Research Assistant; Advisor: Joachim Denzler

Jena, Germany

SAP

05/2016 – 08/2016

Student Assistant; Big Data Products

Walldorf, Germany

Robert Bosch Tool Corporation

04/2015 – 02/2016

Intern; Supply Chain Management

Mt Prospect, IL, USA

Robert Bosch GmbH

09/2014 – 03/2015

Intern, App & Software Product Management

Leinfelden, Germany

Translational Psychiatric Therapy Research

12/2012 – 09/2014

Research Assistant; MRI Data collection and analysis

Heidelberg, Germany

Awards and Scholarships

MPI-IS Outstanding Female Doctoral Student Prize Honorable Mention

2023

Best Pitch and Best Business Model Award, Cyber Valley Start-up Incubation Program

2022

CVPR Best Paper Nominee for *Accurate 3D Body Shape Regression Using*

2022

Metric and Semantic Attributes

CVPR Best Paper Nominee for <i>On Self-Contact and Human Pose</i>	2021
Exam Award of the Dean , Jena University, Faculty of Mathematics and Computer Science	2019
Bertelsmann IT Scholarship	2018 – 2019
E-fellows Scholarship	2018

Activities

Workshop organizer for the S4 Soft Skill Workshop Series of IMPRS-IS, 2021 - 2022

Student representative at the International Max Planck Research School for Intelligent Systems, 10/2019 - 02/2021

Student mentor at Make Your School – Your Ideas Workshop, 2019

Hack4Health, 2nd place, Data Science Hackathon organized by the Robert Koch Institute, 2018

Talks

Generative Methods for Human Social Interaction, ECCV, Generative Methods for Human Social Interaction Workshop, 2024

Interpersonal Touch and Human Mesh Reconstruction, ECCV, Social AI Workshop, 2024

Self- and Interpersonal Contact in 3D Human Mesh Reconstruction, Meta, 2024

Self- and Interpersonal Contact in 3D Human Mesh Reconstruction, 46th Pattern Recognition and Computer Vision Colloquium, Prague University, 2023

Accurate 3d body shape regression using metric and semantic attributes, oral presentation at CVPR 2022

On Self-Contact and Human Pose, ETH Zürich, Computer Vision and Learning Group, 2021

On Self-Contact and Human Pose, oral presentation at CVPR 2021

Causal inference in nonverbal dyadic communication, Friedrich Schiller University Jena, at the Graduation Ceremony of the Faculty of Mathematics and Computer Science, 2019

Patent Application

L. Müller, M. Black, C.-H. P. Huang, D. Tzionas, V. Choutas, “Accurate body shape estimation”, provision application filed, April 17, 2023

Publications

- [1] V. H. Maluleke, L. Müller, J. Rajasegaran, G. Pavlakos, S. Ginosar, A. Kanazawa, and J. Malik, “Synergy and synchrony in couple dances,” *arXiv preprint arXiv:2409.04440*, 2024.
- [2] L. Müller, V. Ye, G. Pavlakos, M. J. Black, and A. Kanazawa, “Generative proxemics: A prior for 3d social interaction from images,” in *Computer Vision and Pattern Recognition (CVPR)*, 2024.
- [3] L. Müller*, H. Choi*, A. Zhang, B. Yi, J. Malik, and A. Kanazawa, “Reconstructing people, places, and cameras,” *arXiv:2412.17806*, 2024.
- [4] S. Subramanian, E. Ng, L. Müller, D. Klein, S. Ginosar, and T. Darrell, “Pose priors from language models,” *arXiv*, 2024.
- [5] B. Yi, V. Ye, M. Zheng, L. Müller, G. Pavlakos, Y. Ma, J. Malik, and A. Kanazawa, “Estimating body and hand motion in an ego-sensed world,” *arXiv preprint arXiv:2410.03665*, 2024.
- [6] S. Tripathi, L. Müller, C.-H. P. Huang, T. Omid, M. J. Black, and D. Tzionas, “3D human pose estimation via intuitive physics,” in *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, Jun. 2023.
- [7] V. Choutas*, L. Müller*, C.-H. P. Huang, S. Tang, D. Tzionas, and M. J. Black, “Accurate 3d body shape regression using metric and semantic attributes,” in *Computer Vision and Pattern Recognition (CVPR)*, 2022, pp. 2718–2728.
- [8] M. Kocabas, C.-H. P. Huang, J. Tesch, L. Müller, O. Hilliges, and M. J. Black, “SPEC: Seeing people in the wild with an estimated camera,” in *International Conference on Computer Vision (ICCV)*, 2021, pp. 11 035–11 045.
- [9] L. Müller, A. A. A. Osman, S. Tang, C.-H. P. Huang, and M. J. Black, “On self-contact and human pose,” in *Computer Vision and Pattern Recognition (CVPR)*, 2021, pp. 9990–9999.
- [10] M. Shadaydeh, L. Müller, D. Schneider, M. Thümmel, T. Kessler, and J. Denzler, “Analyzing the direction of emotional influence in nonverbal dyadic communication: A facial-expression study,” *IEEE Access*, vol. 9, pp. 73 780–73 790, 2021.
- [11] L. Müller., M. Shadaydeh., M. Thümmel., T. Kessler., D. Schneider., and J. Denzler., “Causal inference in nonverbal dyadic communication with relevant interval selection and granger causality,” in *International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications (VISAPP)*, 2019, pp. 490–497.