

Berna Kabadayi

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RESEARCH INTEREST

Computer Graphics, 3D Reconstruction, Neural Rendering, Digital Humans

EDUCATION

Max Planck Institute for Intelligent Systems Apr 2022 - now
PhD in Computer Science, Advised by Justus Thies and Gerard Pons-Moll

Technical University of Munich Oct 2018 - Sept 2021
M.Sc., Computer Science, Advised by Angela Dai Munich, Germany
“Learning to Reconstruct 3D Objects by Part-based Template Deformation”

Middle East Technical University Sep 2013 - Jun 2017
B.Sc., Computer Engineering Ankara, Turkey

ETH Zurich Jul 2016 - Sep 2016
Visiting Student, D-ITET Zurich, Switzerland

PUBLICATIONS

V. Sklyarova*, H. Chen*, **B. Kabadayi**, T. Kirschstein, Z. Fan, X. Wang, G. Pons-Moll, M. Nießner, M. Pollefeys, M. J. Black, J. Thies. DynHair: Head Avatars with Dynamic Explicit Hair (*ECCV 2026*)

B. Kabadayi, V. Sklyarova, W. Zielonka, J. Thies, G. Pons-Moll. PhysHead: Simulation-Ready Gaussian Head Avatars (*CVPR 2026*)

D. Eskandar, **B. Kabadayi**, G. Tiwari, G. Pons-Moll. Disentangled Body-Anchored Gaussians for Controllable Multi-Layered Avatars (*CVPRW 2026, Oral*)

V. Sklyarova*, **B. Kabadayi***, A. Yiannakidis, G. Becherini, M. J. Black, J. Thies. NeuralFur: Animal Fur Reconstruction from Multi-view Images. *International Conference on 3D Vision (3DV)*, 2026 (**Oral, Best Paper Runner Up Award**)

M. Prinzler, E. Zakharov, V. Sklyarova, **B. Kabadayi**, J. Thies. Joker: Conditional 3D Head Synthesis with Extreme Facial Expressions. *International Conference on 3D Vision (3DV)*, 2025.

B. Kabadayi, W. Zielonka, B. Bhatnagar, G. Pons-Moll, J. Thies. GAN-Avatar: Controllable Personalized GAN-based Human Head Avatar. *International Conference on 3D Vision (3DV)*, 2024.

J. Nehvi, **B. Kabadayi**, J. Valentin, J. Thies. 360° Volumetric Portrait Avatar. *GCPR 2024 (Oral)*.

*Co-first authorship

RESEARCH EXPERIENCE

Meta Zurich, Switzerland Jun 2026 - now
Research Scientist Intern - Meta Reality Labs

Summer Geometry Institute, MIT Jul 2021 - Aug 2021
SGI Fellow sgi.mit.edu

	Amazon Inc. , Berlin, Germany <i>Intern, Applied Science, Computer Vision (Michael Donoser)</i>	Aug 2021 - Nov 2021
	Amazon Inc. , Berlin, Germany <i>Intern, Applied Science, Computer Vision (Michael Donoser)</i>	Aug 2020 - Nov 2020
	Visual Computing Lab, TUM <i>IDP Student, Advised by Angela Dai</i>	Apr 2020 - Sept 2020
	ETH Zurich Computer Vision Lab , Zurich, Switzerland <i>Undergraduate Research Intern</i>	Jul 2016 - Sep 2016
TEACHING EXPERIENCE	University of Tuebingen <i>Teaching Assistant, Virtual Humans (ML4508)</i>	Sept 2024 - April 2025
	Technical University of Munich <i>Student Teaching Assistant, Introduction to Deep Learning (IN2346)</i>	Apr 2021 - Sept 2021
HONORS AND AWARDS	Best Paper Honorable Mention (NeuralFur) - 3DV 2026	
	IMPRS-IS Scholar, 2022 - now	
	Summer Geometry Institute, MIT, 2021 <i>Fellow</i>	
	GHC Women in Computing, 2020, <i>TUM IFF scholar</i>	
	4th place METU Senior Project Competition, <i>BMO Special Award</i>	
	Haci Omer Sabanci Foundation Scholarship (2012 - 2017)	
	TUBITAK Chemistry High School Olympiad Student (2010 - 2012)	
INDUSTRY EXPERIENCE	Amazon Inc. , Berlin, Germany <i>SDE Intern, AWS Resource Groups</i>	Sept 2019 - Nov 2019
	Seven Bridges Genomics Inc. , Ankara, Turkey <i>R & D Engineer, The Graph Genome Team</i>	Jul 2017 - Sep 2018