Berna Kabadayı

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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

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

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).*

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

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

Amazon Inc., Berlin, Germany   Summer 2020, 2021
Intern, Applied Science, Computer Vision

Visual Computing Lab, TUM   Apr 2020 - Sept 2020
IDP Student, Advised by Angela Dai

ETH Zurich Computer Vision Lab, Zurich, Switzerland   Jul 2016 - Sep 2016
Undergraduate Research Intern

TEACHING EXPERIENCE	**University of Tuebingen** *Teaching Assistant, Virtual Humans (ML4508)*	Sept 2024 - April 2025
	Technical University of Munich *Student Teaching Assistant, Introduction to Deep Learning (IN2346)*	Apr 2021 - Sept 2021

HONORS AND AWARDS

IMPRS-IS Scholar, 2022 - now
Summer Geometry Institute, MIT, 2021 *Fellow*
GHC Women in Computing, 2020, *TUM IFF scholar*
4th place METU Senior Project Competition, *BMO Special Award*
Haci Omer Sabanci Foundation Scholarship (2012 - 2017)
TUBITAK Chemistry High School Olympiad Student (2010 - 2012)
Honor standing, High honor standing (Fall 2016, Spring 2016)

INDUSTRY EXPERIENCE	**Amazon Inc.**, Berlin, Germany *SDE Intern, AWS Resource Groups*	Summer 2019
	Seven Bridges Genomics Inc., Ankara, Turkey *R & D Engineer, The Graph Genome Team*	Jul 2017 - Sep 2018