

Youngjoong Kwon

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Research Interests	Human Digitization, 3D/4D Reconstruction, Generative AI, Human-Centric Applications	
Research Experiences	Stanford University, Stanford Translational AI (STAI) Lab and Stanford Vision and Learning (SVL) Lab <i>Postdoctoral Scholar</i> <i>Advisor: Prof. Ehsan Adeli</i>	Jul. 2024 – Present California, United States
	Carnegie Mellon University, Robotics Institute <i>Postdoctoral Fellow</i> <i>Advisor: Prof. Fernando De la Torre</i>	Jul. 2023 – Jun. 2024 Pennsylvania, United States
	Max Planck Institute for Informatics, VCAI <i>Research Intern</i> <i>Mentors: Dr. Marc Habermann, Prof. Lingjie Liu, Prof. Christian Theobalt</i>	May. 2022 – Aug. 2022 Saarbrücken, Germany
	Adobe Research, Real-time Algorithms Lab <i>Research Intern</i> <i>Mentors: Dr. Stefano Petrangeli, Dr. Haoliang Wang, Dr. Vishy Swaminathan</i>	Jun. 2019 – Nov. 2020 California, United States
Education	University of North Carolina at Chapel Hill <i>Ph.D. in Computer Science</i> <i>Advisor: Prof. Henry Fuchs</i>	Aug. 2018 – Dec. 2023 North Carolina, United States
	University of North Carolina at Chapel Hill <i>M.S. in Computer Science</i> <i>Advisor: Prof. Henry Fuchs</i>	Apr. 2020 North Carolina, United States
	Yonsei University <i>B.S. in Computer Science and Engineering</i> GPA 4.00 / 4.00 (Rank: 1st out of 164) <i>Transferred from Ewha Womans University (Mar. 2012 – Feb. 2015)</i>	Mar. 2015 – Aug. 2017 Seoul, South Korea
Publications	Youngjoong Kwon, Yao He, Heejung Choi, Chen Geng, Jiajun Wu, and Ehsan Adeli Work on Live Human Performance Capture from a Monocular Video Stream, To be submitted to SIGGRAPH 2025	
	Yixing Lu, Junting Dong, Youngjoong Kwon , Qin Zhao, Bo Dai, and Fernando De la Torre Work on Generative Avatar Creation from a Single Image, In Submission at CVPR 2025 [video]	
	Youngjoong Kwon, Baole Fang*, Yixing Lu*, Haoye Dong, Cheng Zhang, Francisco Vicente Carrasco, Albert Mosella-Montoro, Jianjin Xu, Shingo Takagi, Daeil Kim, Aayush Prakash, and Fernando De la Torre Generalizable Human Gaussians for Sparse View Synthesis, ECCV 2024 [paper] [project]	

Shengze Wang, Ziheng Wang, Ryan Schmelzle, Liujie Zheng, **YoungJoong Kwon**,
Soumyadip Sengupta, Henry Fuchs
Learning View Synthesis for Desktop Telepresence with Few RGBD Cameras,
TVCG 2024 [[paper](#)] [[project](#)]

Youngjoong Kwon, Lingjie Liu, Henry Fuchs, Marc Habermann, Christian Theobalt
DELIFAS: Deformable Light Fields for Fast Avatar Synthesis,
In NeurIPS 2023 [[paper](#)] [[project](#)]

Youngjoong Kwon, Dahun Kim, Duygu Ceylan Henry Fuchs,
**Neural Image-based Avatars: Generalizable Radiance Fields for Human
Avatar Modeling**,
In ICLR 2023 [[paper](#)] [[project](#)]

Youngjoong Kwon, Stefano Petrangeli, Dahun Kim, Haoliang Wang, Viswanathan
Swaminathan, Henry Fuchs,
Tailor Me: An Editing Network for Fashion Attribute Shape Manipulation,
In WACV 2022 [[paper](#)]

Youngjoong Kwon, Dahun Kim, Duygu Ceylan Henry Fuchs,
**Neural Human Performer: Learning Generalizable Radiance Fields for Human
Performance Rendering**,
In NeurIPS 2021 **Spotlight** (Acceptance: < 3.0%) [[paper](#)] [[project](#)]

Youngjoong Kwon, Stefano Petrangeli, Dahun Kim, Haoliang Wang, Henry Fuchs,
Viswanathan Swaminathan,
Rotationally-Consistent Novel View Synthesis for Humans,
In ACM MM 2020 [[paper](#)]

Youngjoong Kwon, Stefano Petrangeli, Dahun Kim, Haoliang Wang, Eunbyung Park,
Viswanathan Swaminathan, Henry Fuchs,
**Rotationally-Temporally Consistent Novel View Synthesis of Human
Performance Video**,
In ECCV 2020 **Spotlight** (Acceptance: 265/5025 \approx 5.3%) [[paper](#)] [[data](#)]

Young-Joong Kwon, Dae-Yong Kim, In-Kwon Lee,
Real-time Animation of Rain-wet Cloth Material,
In CASA 2017 [[paper](#)]

Honors and Awards	Bronze Award, 28th HumanTech Paper Award, Samsung Electronics (\$5,000)	2022
	Collaborative Research Funding, Adobe Research	2019
	High Honors, Yonsei University	2016
	Best Graduation Project Award, Yonsei University	2016
Patents	View synthesis with spatial and rotational consistency US Patent 12,051,175	
	Techniques for image attribute editing using neural networks US Patent 11,967,049	

Invited Talk	Brown University Affordable and Efficient Human Digitization <i>hosted by Prof. James Tompkin</i>	2024
	Texas A&M University Affordable and Efficient Human Digitization <i>hosted by Prof. Cheng Zhang</i>	2024
	NVIDIA Affordable and Efficient Human Digitization <i>hosted by Dr. Umar Iqbal</i>	2024
	Adobe Research Affordable and Efficient Human Digitization <i>hosted by Dr. Yi Zhou</i>	2024
	Stanford University Modeling Efficient Representation for Human Digitization with Affordable Setup <i>hosted by Prof. Gordon Wetzstein</i>	2023
	Max Planck Institute for Intelligent Systems (MPI-IS) Learning to Create Digital Humans <i>hosted by Yuliang Xiu</i>	2022
	The University of British Columbia (UBC) Learning to Create Digital Humans <i>hosted by Prof. Helge Rhodin</i>	2022
Academic Service	Reviewer at NeurIPS, ICML, TOG, CVPR, ECCV, ICCV, SIGGRAPH ASIA, 3DV, VR, ICLRW	
References	Prof. Ehsan Adeli: Postdoc advisor Assistant Professor, Psychiatry and Behavioral Sciences, Stanford University; Email: eadeli@stanford.edu	
	Prof. Fernando De La Torre: Postdoc advisor Research Associate Professor, Robotics Institute, Carnegie Mellon University; Email: ftorre@andrew.cmu.edu	
	Prof. Henry Fuchs: M.S. and Ph.D. advisor Federico Gil Distinguished Professor, Computer Science, University of North Carolina Chapel Hill; Email: fuchs@cs.unc.edu	
	Dr. Marc Habermann: Internship advisor Research Group Leader, Max Planck Institute for Informatics (MPII); Email: mhaberma@mpi-inf.mpg.de	
	Prof. Lingjie Liu: Internship advisor Assistant Professor, Computer and Information Science, University of Pennsylvania; Email: lingjie.liu@seas.upenn.edu	