



CEO & Co-Founder, Pinscreen, Inc. Associate Professor, Mohamed bin Zayed University of Artificial Intelligence Director, MBZUAI Metaverse Lab

Pinscreen, Inc. 11766 Wilshire Blvd, Suite 1150 Los Angeles, CA 90025, USA

hao@hao-li.com Email Home page Facebook

http://www.hao-li.com/ http://www.facebook.com/li.hao/

Date of birth	17/01/1981
Place of birth	Saarbrücken, Germany
Citizenship	German
Languages	German, French, English, and Mandarin Chinese (all fluent and no accents)

I am CEO and Co-Founder of Pinscreen, an LA-based startup that builds the world's most advanced AI-driven virtual avatars, as well as Associate Professor at the Mohamed bin Zayed University of Artificial Intelligence and Director of the MBZUAI Metaverse Lab research center. Before that, I was a Distinguished Fellow of the Computer Vision Group at the University of California, Berkeley and Associate Professor of Computer Science at the University of Southern California, where I was also Director of the USC Institute for Creative Technologies. I work at the intersection between Computer Graphics, Computer Vision, and AI, with focus on photorealistic human digitization using deep learning and data-driven techniques. I'm known for my work on dynamic geometry processing, virtual avatar creation, facial performance capture, AI-driven 3D shape digitization, and deep fakes. My research has led to the Animoji technology in Apple's iPhone X, I worked on the digital reenactment of Paul Walker in the movie Furious 7, and my algorithms on deformable shape alignment have improved the radiation treatment for cancer patients all over the world. I have been keynote speaker at numerous major events, conferences, festivals, and universities, including the World Economic Forum (WEF) in Davos 2020 and Web Summit 2020. I was previously a visiting professor at Weta Digital, a research lead at Industrial Light & Magic / Lucasfilm, and a postdoctoral fellow at Columbia and Princeton Universities. I obtained my PhD at ETH Zurich and my MSc degree at the University of Karlsruhe (TH). I have been named one of the world's top 35 innovator under 35 by MIT Technology Review in 2013 and NextGen10: Innovators under 40 by C-Suite Quarterly in 2014. I received the Office of Naval Research (ONR) Young Investigator Award in 2018, the Google Faculty Research Award, the Okawa Foundation Research Grant, and the Andrew and Erna Viterbi Early Career Chair in 2015, the Swiss National Science Foundation fellowship in 2011, and the best paper award at SCA 2009. I am ranked #1 on Microsoft Academic in 2016 on the top 10 leaderboard in Computer Graphics for the past five years. I am member of the Global Future Councils of the World Economic Forum (WEF) and have been named to the DARPA Information Science and Technology (ISAT) Study Group in 2019. In 2020, my team and I also won the "Best in Show" award at SIGGRAPH Real-Time Live! I also serve as expert witness for IP litigation relating to Computer Vision and Graphics.

Google Scholar

https://scholar.google.com/citations?user=NFeigSoAAAAJ&hl=en

EDUCATION

Ph. D., Computer Science

ETH Zurich, Department of Computer Science

• Thesis: Animation Reconstruction of Deformable Surfaces Advisor: Prof. M. Pauly

M. Sc., Computer Science

Universität Karlsruhe (TH), Department of Computer Sciences

- Thesis: Reconstruction of Colored Objects from Structured Illuminated Views Advisor: Prof. H. Prautzsch
- Major 1: Computer graphics and geometric modeling
- Major 2: Cryptography and security
- Minor: Differential and projective geometry

10/2000 - 01/2006

07/2006 - 11/2010

ERASMUS Student Exchange, Computer Science Institut National Polytechnique de Grenoble, ENSIMAG	10/2002 - 09/2003
French-German High School Diploma Lycée Franco-Allemand de Sarrebruck, Germany	09/1992 - 05/1999
POSITIONS	
Pinscreen, Inc. CEO & Co-Founder	10/2015 - ongoing
Mohamed bin Zayed University of Artificial Intelligence Associate Professor (with Tenure), Computer Vision Department	05/2022 - ongoing
Hao Li Consulting, LLC Owner & Founder	02/2021 - ongoing
University of California, Berkeley Distinguished Fellow, Computer Vision Group	11/2020 - 05/2022
University of Southern California Associate Professor (with Tenure), Computer Science Department	05/2019 - 06/2020
USC Institute for Creative Technologies Director of the Vision and Graphics Lab	08/2016 - 06/2020
Weta Digital Visiting Professor, Virtual Studio Group	06/2014 - 08/2014
University of Southern California Assistant Professor, Andrew and Erna Viterbi Early Career Chair, Computer Science Department	08/2013 - 05/2019
Industrial Light & Magic, Lucasfilm Ltd. Research Lead, R&D Group	04/2012 - 07/2013
Columbia University Postdoctoral Fellow, Columbia Computer Graphics Group	04/2011 - 03/2012
Princeton University Visiting Postdoctoral Researcher, Princeton Computer Graphics Group	04/2011 - 03/2012
École Polytechnique Fédérale de Lausanne Visiting and Postdoctoral Researcher, Computer Graphics and Geometry Laboratory	02/2010 - 04/2011
Industrial Light & Magic, Lucasfilm Ltd. Research Intern, R&D Group	07/2009 - 10/2009
Stanford University Visiting Researcher, Geometric Computing Group	07/2008 - 09/2008
ETH Zurich Research Assistant, Applied Geometry Group	07/2006 - 11/2010
National University of Singapore Visiting Research Scholar, Centre for Information Mining and Extraction	01/2006 - 07/2006

TEACHING

Lecturer

Mohamed bin Zayed University of Artificial Intelligence

• CV 702: 3D Geometry for Computer Vision (Lecture) SS 2023

University of Southern California, Computer Science Department

- CSCI 621: Digital Geometry Processing (Lecture) SS 2017, SS 2018, and SS 2019
- CSCI 420: Computer Graphics (Lecture) FS 2014, FS 2015, FS 2017, and FS 2018
- CSCI 599: Digital Geometry Processing (Lecture) SS 2014 and SS 2015

Instructor/Host

Mohamed Bin Zayed University of Artificial Intelligence

- AI For Leadership: Deep Learning, Computer Vision, NLP & Metaverse FS 2022
- MEP05: MBZUAI Executive Program: The Future of Robotics FS 2022

Guest Lecturer

University of Southern California, Computer Science Department

- QBIO 105: Introduction to Quantitative Biology Seminar SS 2020
- CSCI 576: Multimedia Systems Design (Lecture) FS 2016
- EE 598: Electrical Engineering Research Seminar (Lecture) SS 2016
- CSCI 697: Seminar in Computer Science Research (Lecture) FS 2015 and FS 2017
- CSCI 109: Introduction to Computing (Lecture) SS 2014 and FS 2015
- CSCI 597: Seminar in Computer Science Research (Lecture) FS 2013
- ENGR 102: Freshmen Academies (Lecture) FS 2013

Stanford University, Computer Science Department

• CS148: Introduction to Computer Graphics & Imaging (Lecture) 2012

Columbia University, Computer Science Department

• Computer Graphics (Lecture) 2011

Teaching Assistant

École Polytechnique Fédérale de Lausanne, School of Computer and Communication Sciences

- Digital 3D Geometry Processing (Lecture) 2010
- Computer Graphics (Lecture) 2010

ETH Zurich, Department of Computer Science

- Surface Representation and Geometric Modeling (Lecture) 2007, 2008, and 2009
- Introduction to Computer Graphics (Lecture) 2006, 2007, 2008, and 2009
- Advanced Topics in Computer Graphics (Seminar) 2006 and 2007
- Geometric Computing (Seminar) 2008

Divi Schmidt, BSc Student

MENTORING

Supervision

Mohamed Bin Zayed University of Artificial Intelligence, Computer Vision Department

Phong Tran, PhD Student	08/2022 - ongoing
Long-Nhat Ho, PhD Student	08/2022 - ongoing
Steven Phong Hoang, MSc Student	06/2022 - ongoing
Ariana Michelle Bermudez Venegas, MSc Student	10/2022 - ongoing
Maksym Bekuzarov, MSc Student	10/2022 - ongoing
Maksat Kengeskanov, MSc Student	10/2022 - ongoing
Valeriy Rotan, BSc Student (exchange student, UC Berkeley)	06/2022 - ongoing
University of California, Berkeley, Computer Vision Group	
Ruilong Li, PhD Student (Co-Supervised with Angjoo Kanazawa)	08/2021 - 05/2022
• Alex Yu, BSc Student	01/2021 - 05/2022

01/2021 - 05/2022 06/2021 - 05/2022

• Sarthak Kamat, BSc Student	06/2021 - 05/2022
Chenyue Cai, BSc Student	06/2021 - 05/2022
University of Southern California, Computer Science Department	
• Jiaman Li, PhD Student	09/2019 - 08/2021
Ruilong Li, PhD Student	09/2019 - 08/2021
 Pengda Xiang, PhD Student 	09/2018 - 08/2021
Sitao Xiang, PhD Student	09/2016 - 08/2021
• Zimo Li, PhD Student	09/2016 - 08/2021
Shichen Liu, PhD Student	09/2018 - 07/2021
 Zhengfei Kuang, PhD Student 	09/2019 - 11/2020
• Tianye Li, PhD Student (MSc in 2015)	11/2015 - 08/2021
• Kyle Olszewski, PhD Student (PhD defense in 10/2020)	09/2014 - 11/2020
• Zeng Huang, PhD Student (PhD defense in 08/2020)	09/2016 - 08/2020
• Zhou Yi, PhD Student (PhD defense in 03/2020)	09/2016 - 05/2020
 Shunsuke Saito, PhD Student (PhD defense in 12/2019) 	09/2015 - 05/2020
 Lingyu Wei, PhD Student (PhD defense in 03/2018) 	09/2014 - 05/2018
 Liwen Hu, PhD Student (MSc in 2013 and PhD defense in 11/2018) 	09/2014 - 05/2019
 Nitika Aggarwal, MSc Student 	01/2014 - 05/2014
Ronald Yu, MSc Student	10/2016 - 05/2018
Carrie Sun, BSc Student	01/2014 - 05/2014
Lizhi Fan, BSc Student	01/2015 - 05/2015
Natalie Monger, BSc Student	09/2016 - 05/2017
Dr. Chongyang Ma, Postdoctoral Researcher	09/2013 - 06/2015
USC Institute for Creative Technologies, Vision and Graphics Lab	
Kathleen Haase, Special Projects Manager	06/2016 - 06/2020
Yajie Zhao, Researcher Associate	10/2017 - 06/2020
Mingming He, Postdoctoral Researcher	12/2018 - 06/2020
• Loc Huynh, PhD Student	08/2017 - 06/2020
Karl Bladin, Research Programmer	08/2017 - 06/2020
• Pratusha Prasad, Research Programmer (MSc in 2016)	06/2016 - 06/2020
• Xinglei Ren, Research Programmer (MSc in 2017)	04/2017 - 06/2020
Bipin Kishore, Research Programmer (MSc in 2017)	04/2017 - 06/2020
Chinmay Chinara, Research Programmer (MSc in 2018)	05/2018 - 06/2020
Aakash Shanbhag, Research Programmer (MSc in 2018)	05/2018 - 06/2020
Marcel Ramos, Digital Artist	06/2016 - 06/2020
Christina Trejo, Project Coordinator	06/2016 - 06/2020
Owen Ingraham, Digital Artist	07/2018 - 05/2020
Weikai Chen, Researcher Associate	06/2017 - 09/2019
• Jun Xing, Postdoctoral Researcher	05/2017 - 01/2019
Andrew Jones, Sr. Research Associate	06/2016 - 01/2018
Columbia University, Computer Science Department	
Nathaniel Clinger, BSc Student	01/2012 - 05/2012
Papoj Thamjaroenporn, BSc Student	01/2012 - 05/2012
Pei-Lun Hsieh, MSc Student	01/2012 - 05/2012
Xiaochen Hu, BSc Student	01/2012 - 05/2012
EPFL, School of Computer and Communication Sciences	
_	06/2010 - 00/2010
Alexandru Ichim, MSc Student	06/2010 - 09/2010
ETH Zurich, Department of Computer Science	
Huw Bowles, MSc Student	11/2008 - 05/2009
Jens Puwein, MSc Student	02/2008 - 08/2008
Jeroen Dries, MSc Student	09/2006 - 03/2007

• Zeng Huang, University of Southern California

V: 71 and Hairman's and Card Lange California	02/2020
• Yi Zhou, University of Southern California	03/2020
Shunsuke Saito, University of Southern California	12/2019
• Jens Windau, University of Southern California	04/2019
• Liwen Hu, University of Southern California	11/2018
Lingyu Wei, University of Southern California	03/2018
• Yi Guo, University of Southern California	03/2017
Kai Chang, University of Southern California	02/2017
• Srinath Sridhar, Saarland University / Max Planck Institute for Informatics	12/2016
Hongyi Xu, University of Southern California	11/2016
Morten Bojsen-Hansen, IST Austria	07/2016
 Koki Nagano, University of Southern California 	04/2016
Sema Berkiten, Princeton University	02/2016
 Paul Graham, University of Southern California 	05/2014
Zhuoliang Kang, University of Southern California	04/2014
PhD Qualifying Committee	
Zimo Li, University of Southern California	04/2020
 Zeng Huang, University of Southern California 	03/2020
Yitao Hu, University of Southern California	02/2020
• Yi Zhou, University of Southern California	01/2019
Loc Huynh, University of Southern California	05/2018
Weiyue Wang, University of Southern California	04/2018
Chloe Legendre, University of Southern California	03/2018
Lingyu Wei, University of Southern California	11/2017
Jens Windau, University of Southern California	11/2017
Yijing Li, University of Southern California	05/2017
Sean Mason, University of Southern California	03/2017
Soravit Changpinyo, University of Southern California	11/2016
Yi Guo, University of Southern California	12/2015
Inkyu Kim, University of Southern California	08/2016
Matthias Hernandez, University of Southern California	05/2016
Tran Tuan Anh, University of Southern California	04/2016
Arnav Aghaarwal, University of Southern California	04/2016
Kai Chang, University of Southern California	02/2016
 Ruizhe Wang, University of Southern California 	12/2015
 Rongqi Qiu, University of Southern California 	08/2015
 Christian Potthast, University of Southern California 	05/2015
 Kai Chang, University of Southern California 	05/2015
° °, ,	05/2013
Guan Pang, University of Southern California	
Mohammad Abdel-Majeed, University of Southern California Basel Cash and University of Castham California	03/2014
Paul Graham, University of Southern California	09/2013
Andrew Jones, University of Southern California	09/2013
Morten Bojsen-Hansen, IST Austria	07/2012
Breannan Smith, Columbia University	03/2012

Outreach

University of Southern California, Computer Science Department

- USC Viterbi EngX 2019 (ONR STEM)
- USC London Hackathon 2018
- USC Academic Career Mentoring Panel 2017
- USC Viterbi K-12 STEM: Coding and Animation (Screening and Panel) 2015

ACADEMIC SERVICES

Mohamed Bin Zayed University of Artificial Intelligence

- MBZUAI Commencement Task Force, FS 2022
- HCI Faculty Search Committee, FS 2022

• Student Admissions Committee, FS 2022

University of Southern California, Computer Science Department

- Annual Faculty Merit Review Committee, SS 2020
- CS Department Faculty Search Committee, FS 2019
- CS Games Curriculum Revision Committee, FS 2019
- SCA IMGD / CSGames Faculty Joint Appointment Committee (Chair), FS 2019
- ICT MxR Director Search Committee, FS 2018
- SCA IMGD / CSGames Faculty Tenure Committee, FS 2018
- CS Department PhD Admissions Committee, FS 2018
- SCA IMGD / CSGames Faculty Search Committee, SS 2018
- CS Department PhD Admissions Committee, FS 2017
- Annual Faculty Merit Review Committee, SS 2017
- CS Department PhD Admissions Committee, FS 2016
- CS Department Faculty Search Committee, FS 2015
- CS Department PhD Admissions Committee, FS 2015
- CS Department Faculty Search Committee, FS 2014
- CS Department Transformative Committee, FS 2013
- Co-Chair of CS Department Colloquium Committee, FS 2013

CONSULTING

American Scholastic Convention Research	07/2021 - ongoing
Daignault Iyer LLP	02/2021 - ongoing
Munger, Tolles & Olson LLP	10/2018 - ongoing
Canadian Security Intelligence Service	03/2021 - 03/2021
Goldberg Segalla LLP	05/2020 - 02/2021
Huawei	09/2015 - 09/2016
LEIA, Inc.	04/2015 - 10/2015
L Squared Capital Partners	03/2015 - 04/2015
Oculus VR/Facebook	08/2014 - 07/2015
Embodee Corp.	03/2014 - 05/2015
Pelican Imaging	02/2014 - 11-2016
Innored, Inc.	09/2013 - 01/2014
Disney Research Zurich	09/2013 - 09/2016
Industrial Light & Magic, Lucasfilm Ltd.	07/2013 - 06/2014
The Jig Lab	07/2013 - 05/2014
Tuxedo Agency	11/2012 - 11/2012
Artec Group, Inc	08/2011 - 12/2014
3Gear Systems	05/2011 - 04/2012
XYZ RGB, Inc.	07/2011 - 01/2012
Max Planck Institute for Intelligent Systems	05/2011 - 11/2011
C-RAD AB	08/2010 - 08/2011
Mova LLC	08/2010 - 10/2010
Filmakademie Baden-Württemberg GmbH, Institute for Animation	04/2010 - 07/2010
Aguru Images, Inc.	08/2008 - 07/2009

RESEARCH GRANTS & GIFTS

Total Funding Awarded to PI: \$18,567,472 where \$840,000 for MBZUAI, \$3,522,525 for USC, and \$14,204,945 for USC/ICT.

University Funding for MBZUAI

Mohamed bin Zayed University of Artificial Intelligence MBZUAI Start-up Funding Start Date: 05/10/2022

Award Amount: \$840,000 Role: PI (MBZUAI)

Federal Funding for USC and USC/ICT (\$12,017,745)

Army Research Office (ARO) RTO: Diverse Crowd Generation at Scale with Lifelike Faces Duration: 06/01/2020 - 05/31/2021 Award Amount: \$189,000 Role: PI (USC/ICT)

Army Research Office (ARO) UARC 6.1: AI-Driven 3D Shape and Motion Synthesis Duration: 11/01/2019 - 10/31/2021 Award Amount: \$2,636,190 Role: PI (USC/ICT)

Army Research Office (ARO) RTO: Real-Time Dynamic Occlusion Handling for RGB-Based Augmented Reality Duration: 11/01/2019 - 10/31/2020 Award Amount: \$200,000 Role: PI (USC/ICT)

U.S. Army Natick (NATICK) Virtual Reality Testbed Duration: 08/06/2019 I - 12/06/2019 Award Amount: \$100,500 Role: PI (USC/ICT)

U.S. Government Project Nexus: Lifelike Digital Human Replica Duration: 09/01/2018 - 08/31/2019 Award Amount: \$1,000,000 Role: PI (USC/ICT)

Army Research Office (ARO) RTO: Scalable and Efficient Light Stage Pipeline for High-Fidelity Face Digitization Duration: 09/01/2018 - 08/31/2019 Award Amount: \$200,000 Role: PI (USC/ICT)

U.S. Army Natick (NATICK) High-Fidelity Rigging and Shading of Virtual Soldiers Duration: 09/01/2018 - 03/31/2019 Award Amount: \$157,500 Role: PI (USC/ICT)

Office of Naval Research (ONR - HPTE) Young Investigator Program (YIP): Complete Human Digitization and Unconstrained Performance Capture Duration: 06/01/2018 - 05/31/2021 Award Amount: \$591,509 Role: PI (USC)

Semiconductor Research Corporation (SRC) / Defense Advanced Research Projects Agency (DARPA) JUMP: Computing On Network Infrastructure for Pervasive, Cognition, and Action Duration: 01/01/2018 - 12/31/2022

Award Amount: \$1,174,818 Role: PI (USC)

Army Research Office (ARO) UARC 6.1/6.2: Avatar Digitization & Immersive Communication Using Deep Learning Duration: 11/01/2017 - 10/31/2019 Award Amount: \$2,821,000 Role: PI (USC/ICT)

Army Research Office (ARO) RTO: Strip-Based Hair Modeling Using Virtual Reality Duration: 11/01/2017 - 10/31/2018 Award Amount: \$250,000 Role: PI (USC/ICT)

Army Research Office (ARO) RTO: Head-Mounted Facial Capture & Rendering for Augmented Reality Duration: 11/01/2017 - 10/31/2018 Award Amount: \$200,000 Role: PI (USC/ICT)

Army Research Office (ARO) UARC 6.1/6.2: Capture, Rendering, & Display for Virtual Humans Duration: 11/01/2016 - 10/31/2017 Award Amount: \$1,408,011 Role: Project Lead (USC/ICT)

United States SHARP Academy (ARO) Digital SHARP Survivor Duration: 07/01/2016 - 06/31/2017 Award Amount: \$94,953 Role: PI (USC/ICT)

Army Research Office (ARO) RTO: Lighting Reproduction for RGB Camouflage Duration: 01/01/2016 - 12/31/2017 Award Amount: \$200,000 Role: PI (USC/ICT)

U.S. Army Natick (NATICK) Research Contract Duration: 09/01/2015 - 12/31/2016 Award Amount: \$145,000 Role: PI (USC/ICT)

Office of Naval Research (ONR) Markerless Performance Capture for Automated Functional Movement Screening Duration: 08/01/2015 - 09/30/2017 Award Amount: \$230,000 Role: PI (USC)

Intelligence Advanced Research Projects Activity (IARPA), Department of Defense (DoD) GLAIVE: Graphics and Learning Aided Vision Engine for Janus Duration: 07/25/2014 - 07/24/2018 Award Amount: \$419,264 Role: Co-PI (USC)

Industry Funding for USC and USC/ICT (\$4,121,561)

Facebook Facebook Award Date: 02/25/2020 Award Amount: \$10,000 Role: PI (USC)

Sony Corporation Light Stage Processing Research Duration: 10/01/2019 - 09/30/2020 Award Amount: \$200,000 Role: PI (USC/ICT)

Toppan Printing Co., Ltd. Research Contract Duration: 10/01/2019 - 09/30/2020 Award Amount: \$697,150 Role: PI (USC/ICT)

Engility Corporation Mystique Date: 06/01/2019 - 08/31-2019 Award Amount: \$68,473 Role: PI (USC/ICT)

Adobe Systems Inc. Research Gift Donation Date: 28/02/2019 Award Amount: \$5,000 Role: PI (USC)

Softbank Corp. 3D Modeled, Rigged, and Animated Characters from 2D Video Duration: 01/01/2019 - 01/01/2020 Award Amount: \$111,534 Role: Co-PI (USC)

Snap Inc. Research Gift Donation Date: 10/29/2018 Award Amount: \$20,000 Role: PI (USC)

TOEI Company, Ltd. Research Contract Duration: 06/01/2018 - 03/01/2019 Award Amount: \$580,000 Role: PI (USC/ICT)

Lightstage, LLC / Otoy Research Contract Duration: 05/15/2018 - 12/31/2018 Award Amount: \$152,000 Role: PI (USC/ICT)

Sony Corporation Highly Sparse Volumetric Capture Using Deep Learning Duration: 05/01/2018 - 04/31/2019 Award Amount: \$120,000 Role: PI (USC)

Sony Corporation Geometry and Appearance Synthesis for 3D Human Performance Capture Duration: 05/01/2017 - 04/31/2018 Award Amount: \$120,000 Role: PI (USC)

Adobe Systems Inc. Research Gift Donation Date: 08/09/2017 Award Amount: \$20,000 Role: PI (USC)

Mediafront Inc. Research Contract Date: 06/28/2017 Award Amount: \$38,095 Role: PI (USC/ICT)

Activision Publishing Inc. Research Contract Date: 05/09/2017 Award Amount: \$21,593 Role: PI (USC/ICT)

Electronic Arts Inc. Research Contract Duration: 12/01/2016 - 12/01/2018 Award Amount: \$460,000 Role: PI (USC/ICT)

SOOVII Digital Media Technology, Ltd Research Contract Date: 11/01/2016 Award Amount: \$1,080,000 Role: PI (USC/ICT)

RL Leaders, LLC Research Contract Date: 10/01/2016 Award Amount: \$630,216 Role: PI (USC/ICT)

Sony Corporation Shape and Reflectance Estimation via Polarization Analysis Duration: 08/12/2016 - 08/23/2017 Award Amount: \$50,000 Role: PI (USC/ICT)

Adobe Systems Inc. Research Gift Donation Date: 01/07/2016 Award Amount: \$10,000 Role: PI (USC)

Sony Corporation Unconstrained Dynamic Shape Capture Duration: 11/01/2015 - 10/31/2016 Award Amount: \$123,500 Role: PI (USC)

Facebook / Oculus Facebook Award Date: 10/14/2015 Award Amount: \$25,000 Role: PI (USC)

Huawei Development of a 3D Hair Database Date: 09/01/2015 Award Amount: \$50,000 Role: PI (USC)

Okawa Foundation Okawa Foundation Award Date: 10/08/2015 Award Amount: \$10,000 Role: PI (USC)

Adobe Systems Inc. Research Gift Donation Date: 04/27/2015 Award Amount: \$9,000 Role: PI (USC)

Embodee Corporation Research Gift Donation Date: 03/17/2015 Award Amount: \$70,000 Role: PI (USC)

Google Google Faculty Research Award: Data-Driven Framework for Unified Face and Hair Digitization Date: 02/12/2015 Award Amount: \$52,000 Role: PI (USC)

Facebook / Oculus Facebook Award Date: 02/03/2015 Award Amount: \$25,000 Role: PI (USC)

Panasonic Corporation Markerless Real-Time Facial Performance Capture Date: 09/22/2014 Award Amount: \$20,000 Role: PI (USC)

Pelican Imaging Corporation Research Gift Donation Date: 07/22/2014 Award Amount: \$50,000 Role: PI (USC)

Innored Inc. Research Gift Donation Date: 11/01/2013 Award Amount: \$25,000 Role: PI (USC)

University Funding for USC and USC/ICT (\$856,166)

USC Shoah Foundation Institute New Dimensions in Testimony Duration: 05/01/2016 - 09/31/2017 Award Amount: \$625,266 Role: PI (USC/ICT)

University of Southern California Andrew and Erna Viterbi Early Career Chair Start Date: 08/16/2015 Award Amount: \$20,000 (to date) Role: PI (USC)

University of Southern California - Integrated Media System Center (IMSC) IMSC Award Duration: 07/01/2013 - 06/30/2014 Award Amount: \$11,000 Role: PI (USC)

University of Southern California USC Start-up Funding Start Date: 09/01/2013 Award Amount: \$199,900 Role: PI (USC)

AWARDS & HONORS

PEER-REVIEWED JOURNAL & CONFERENCE PAPERS

[75] LEARNING TO LISTEN: MODELING NON-DETERMINISTIC DYADIC FACIAL MOTION

Evonne Ng, Hanbyul Joo, Liwen Hu, Hao Li, Trevor Darrell, Angjoo Kanazawa, Shiry Ginosar *Proceedings of the 35th IEEE International Conference on Computer Vision and Pattern Recognition 2022,* (CVPR 2022), 06/2022

[74] TASK-GENERIC HIERARCHICAL HUMAN MOTION PRIOR USING VAES

Jiaman Li, Ruben Villegas, Duygu Ceylan, Jimei Yang, Zhengfei Kuang, Hao Li, Yajie Zhao *Proceedings of the 9th International Conference on 3D Vision 2021*, (3DV 2021), 12/2021

[73] PLENOCTREES FOR REAL-TIME RENDERING OF NEURAL RADIANCE FIELDS

Alex Yu, Ruilong Li, Matthew Tancik, Hao Li, Ren Ng, Angjoo Kanazawa Proceedings of the IEEE International Conference on Computer Vision 2021, (ICCV 2021 Oral Presentation), 10/2021

[72] TOPOLOGICALLY CONSISTENT MULTI-VIEW FACE INFERENCE USING VOLUMETRIC SAMPLING

Tianye Li, Shichen Liu, Timo Bolkart, Jiayi Liu, Hao Li, Yajie Zhao Proceedings of the IEEE International Conference on Computer Vision 2021, (ICCV 2021 Oral Presentation), 10/2021

[71] DISUNKNOWN: DISTILLING UNKNOWN FACTORS FOR DISENTANGLEMENT LEARNING

Sitao Xiang, Yuming Gu, Pengda Xiang, Menglei Chai, Hao Li, Yajie Zhao, Mingming He *Proceedings of the IEEE International Conference on Computer Vision* 2021, (ICCV 2021), 10/2021

[70] NORMALIZED AVATAR SYNTHESIS USING STYLEGAN AND PERCEPTUAL REFINEMENT Huiwen Luo, Liwen Hu, Koki Nagano, Zejian Wang, Han-Wei Kung, Qingguo Xu, Lingyu Wei, Hao Li *Proceedings of the 34th IEEE International Conference on Computer Vision and Pattern Recognition 2021, (CVPR 2021), 06/2021*

[69] EQUIVARIANT POINT NETWORK FOR 3D POINT CLOUD ANALYSIS

Haiwei Chen, Shichen Liu, Weikai Chen, Hao Li Proceedings of the 34th IEEE International Conference on Computer Vision and Pattern Recognition 2021, (CVPR 2021), 06/2021

[68] FULLY CONVOLUTIONAL MESH AUTOENCODER USING EFFICIENT SPATIALLY VARYING KERNELS Yi Zhou, Chenglei Wu, Zimo Li, Chen Cao, Yuting Ye, Jason Saragih, Hao Li, Yaser Sheikh *Proceedings of the 34th Conference on Neural Information Processing Systems 2020,* (*NeurIPS 2020*), 12/2020

[67] DYNAMIC FACIAL ASSET AND RIG GENERATION FROM A SINGLE SCAN

Jiaman Li, Zhengfei Kuang, Yajie Zhao, Mingming He, Karl Bladin, Hao Li ACM Transactions on Graphics, Proceedings of the 13th ACM SIGGRAPH Conference and Exhibition in Asia 2020, (SIGGRAPH Asia 2020), 11/2020

[66] MONOCULAR REAL-TIME VOLUMETRIC PERFORMANCE CAPTURE

Ruilong Li, Yuliang Xiu, Shunsuke Saito, Zeng Huang, Kyle Olszewski, Hao Li Proceedings of the 16th European Conference on Computer Vision 2020, (ECCV 2020), 08/2020

[65] A GENERAL DIFFERENTIABLE MESH RENDERER FOR IMAGE-BASED 3D REASONING

Shichen Liu, Tianye Li, Weikai Chen, Hao Li IEEE Transaction on Pattern Analysis and Machine Intelligence 2020, (PAMI 2020), 7/2020

[64] LEARNING FORMATION OF PHYSICALLY-BASED FACE ATTRIBUTES

Ruilong Li, Karl Bladin, Yajie Zhao, Chinmay Chinara, Owen Ingraham, Pengda Xiang, Xinglei Ren, Pratusha Prasad, Bipin Kishore, Jun Xing, Hao Li *Proceedings of the 33rd IEEE International Conference on Computer Vision and Pattern Recognition 2020,* (CVPR 2020), 06/2020

[63] INTUITIVE, INTERACTIVE BEARD AND HAIR SYNTHESIS WITH GENERATIVE MODELS

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[14] TECHNICAL PERSPECTIVE: PHOTOREALISTIC FACIAL DIGITIZATION AND MANIPULATION Hao Li

Communications of the ACM, January 2019, Vol. 62 No. 1 (CACM 2019), 01/2019

[13] 3D HAIR SYNTHESIS USING VOLUMETRIC VARIATIONAL AUTOENCODER

Hao Li, Shunsuke Saito, Liwen Hu US Provisional Patent (62/775301), filed 12/2018

[12] REAL-TIME AVATARS USING DYNAMIC TEXTURES

Hao Li, Koki Nagano, Jaewoo Seo, Lingyu Wei, Jens Fursund US Provisional Patent (62/718285), filed 08/2018

[11] AVATAR DIGITIZATION FROM A SINGLE IMAGE FOR REAL-TIME RENDERING

Hao Li, Liwen Hu, Lingyu Wei, Koki Nagano, Jaewoo Seo, Jens Fursund US Patent (US18/49243), filed 08/2018

[10] PHOTOREALISTIC FACIAL TEXTURE INFERENCE USING DEEP NEURAL NETWORKS

Shunsuke Saito, Lingyu Wei, Liwen Hu, Hao Li US Patent (US17/64239), filed 12/2017

[9] ON THE EFFECTS OF BATCH AND WEIGHT NORMALIZATION IN GENERATIVE ADVERSARIAL NET-WORKS

Sitao Xiang, Hao Li arXiv:1704.03971 (arXiv 2017), 04/2017

[8] SEGMENTATION-GUIDED REAL-TIME FACIAL PERFORMANCE CAPTURE

Hao Li, Tianye Li, Shunsuke Saito US Patent (US15/438551), filed 02/2017

[7] DEEP LEARNING-BASED FACIAL ANIMATION FOR HEAD-MOUNTED DISPLAY

Hao Li, Joseph J. Kim, Kyle Olszewski US Patent (US15/438546), filed 02/2017

[6] INSPIRING COMPUTER VISION SYSTEM SOLUTIONS

Julian Zilly, Amit Boyarski, Micael Carvalho, Amir Atapour Abarghouei, Konstantinos Amplianitis, Aleksandr Krasnov, Massimiliano Mancini, Hernán Gonzalez, Riccardo Spezialetti, Carlos Sampredo Pérez, Hao Li *arXiv:*1707.07210 (*arXiv:*2017 Best ICVSS Reading Group Prize), 07/2017

[5] BREAKING THE BARRIERS TO TRUE AUGMENTED REALITY

Christian Sandor, Martin Fuchs, Alvaro Cassinelli, Hao Li, Richard Newcombe, Goshiro Yamamoto, Steven Feiner *arXiv:*1512.05471 (*arXiv*:2015), 12/2015

[4] REALTIME FACIAL ANIMATION WITH ON-THE-FLY CORRECTIVES

Hao Li, Jihun Yu, Yuting Ye, Chris Bregler US Patent (US14/141348), filed 08/2012

[3] A METHOD FOR FACIAL ANIMATION

Thibaut Weise, Sofien Bouaziz, Hao Li, Mark Pauly US Patent (US13/323231), filed 12/2011

[2] DYNAMIC HAIR CAPTURE

Linjie Luo, Hao Li, Thibaut Weise, Sylvain Paris, Mark Pauly, Szymon Rusinkiewicz *Technical Report, Princeton University*, 08/2011

[1] FIRST STEPS TOWARD THE AUTOMATIC REGISTRATION OF DEFORMABLE SCANS

Hao Li, Mark Pauly Technical Report, ETH Zurich, 06/2007

THESES

ANIMATION RECONSTRUCTION OF DEFORMABLE SURFACES

Hao Li PhD dissertation, ETH Zurich, 11/2010

REKONSTRUKTION FARBIGER OBJEKTE AUS STRUKTURIERT BELEUCHTETEN ANSICHTEN

Hao Li

Diplomarbeit, Universität Karlsruhe (TH), 06/2005

RECONSTRUCTION USING STRUCTURED LIGHT

Hao Li Studienarbeit, Universität Karlsruhe (TH), 02/2004

FILM CREDITS

Amazon re:MARS Luminaries: Hao Li (Amazon Prime Video, Himself)	
The Champion (Pinscreen, AI VFX Supervisor)	
Deepfakes and the Fog of Truth (CBSN Originals, Himself)	2021
Free Guy (USC Institute for Creative Technologies, Light Stage Processing Supervisor)	2021
ABC News - Nightline: Deepfakes are Becoming Easier to Make (ABC News, Himself)	2021
Travis - Waving at the Window (Pinscreen, Deepfake VFX)	2021
Travis - Nina's Song (Pinscreen, Deepfake VFX)	2020
Forging the Future - Hyper Intelligence S1 E5 (Al Roker Entertainment, Himself)	2020
Ghost in the Shell - 4K Ultra HD Featurette (Lionsgate, Himself)	2020
iHuman (TFIP, Himself)	2019
The Fifth Estate: The Deepfake (CBC, Himself)	2018
Follow This (BuzzFeed/Netflix, Himself)	2018
Blade Runner 2049 (USC Institute for Creative Technologies, Light Stage Processing Supervisor)	2017
Valerian and the City of a Thousand Planets (Vision & Graphics Lab, Director)	2017
Furious 7 (Weta Digital, Researcher)	2015
The Hobbit: The Battle of the Five Armies (Weta Digital, Researcher)	2014
Noah (ILM, R&D)	2014
Captain America: The Winter Soldier (ILM, R&D)	2014
Snickers - Hungry Face Morph	2013
Star Trek Into Darkness (ILM, R&D)	2013
The Lone Ranger (ILM, R&D)	2013
Pacific Rim (ILM, R&D)	2013
Space Pirate Captain Harlock	2013
G.I. Joe: Retaliation (ILM, R&D)	2012
Maattrraan	2012
Yellow	2012
3D Underwater Motion Capture of Dana Vollmer Olympic Gold Medalist 2012	2012

INVITED TALKS

IMMERSIVE PRESENCE FOR THE METAVERSE

Speaker, GITEX GLOBAL 2022, Dubai, 10/2022

AI SYNTHESIS FOR METAVERSE CAPABILITIES & NEXTGEN AI VFX

Keynote Speaker, Pacific Graphics 2022, Kyoto, 10/2022 Invited Talk, Visual Computing and AI Department, Max-Planck-Institut für Informatik, Saarbrücken, 09/2022 Speaker, Human-Centered AI Conference 2022, Los Angeles, 09/2022 Speaker, VinAI Research Seminar, Ho Chi Minh City, 9/2022 Speaker, Global Metaverse Conference & ROK-ASEAN Forum 2022, Busan, 8/2022 Keynote Speaker, ICVSS 2017 International Computer Vision Summer School, Sicily, 7/2022

DEEPFAKES - PURE EVIL OR ALSO AN OPPORTUNITY?

Speaker, re:publica 2022, Berlin, 06/2022

DON'T GET LOST IN TRANSLATION: THE NEURAL RENDERING OF THE CHAMPION

Speaker, FMX 2022, Stuttgart, 05/2022

AUGMENTED & VIRTUAL REALITY: STATE-OF-THE-ART & FUTURE PERSPECTIVES

Invited Talk, Center for Higher Defense Studies (Centro Alti Studi Difesa), Italian Defense Joint Institution, Rome, 05/2022

TELEPORTING OURSELVES INTO THE METAVERSE

Speaker, Stanford HAI Workshop on Simulation and Embodied AI 2022, Stanford, 04/2022

MAD: METAVERSE AUGMENTATION FOR DEFENSE

Speaker, DARPA ISAT Spring Conference 2022, Virtual, 04/2022

STYLEGAN-BASED 3D AVATAR SYNTHESIS

Speaker, Dagstuhl Seminar 2022 3D Morphable Models and Beyond, Wadern, 03/2022

DIGITIZING 3D HUMANS: FROM GEOMETRIC CAPTURE TO NEURAL SYNTHESIS

Speaker, VIZBI 2022, Los Angeles, 03/2022

AI SYNTHESIS FOR THE METAVERSE: FROM AVATARS TO 3D SCENES

Speaker, CMU Tech & Entrepreneurship ML Seminar, Pittsburgh, 04/2022 Speaker, Synthetic Futures Livestream Event Feb 2022, Virtual, 02/2022 Invited Talk, MBZUAI Research Talks, Mohamed Bin Zayed University of Artificial Intelligence, Abu Dhabi, 02/2022

MOTION STYLOMETRY FOR DEEPFAKE DETECTION

Speaker, DARPA SemaFor PI Meeting #3, Arlington, 01/2022

ENABLING THE METAVERSE WITH AI-DRIVEN 3D AVATARS

Keynote Speaker, Global Metaverse Conference 2021, Seoul, 12/2021 Speaker, AWE 2021, Santa Clara, 11/2021 Speaker, 2021 Y-Base AI Symposium: What You Need to Know About The Metaverse, Virtual, 10/2021 Speaker, KoVRA Global Advanced Technology Training Workshop 2021 (Part 1), Virtual, 10/2021 Invited Talk, Krafton, Virtual, 08/2021

AI SYNTHESIS: FROM AVATARS TO 3D SCENES

Speaker, KAIST SoC Colloquium 2021, Korea Advanced Institute of Science and Technology, Daejeon, 12/2021 Speaker, Seminar on 3D Geometry & Vision, Virtual, 10/2021 Speaker, Distinguished Virtual Seminar, Max Planck Institute for Intelligent Systems, Tübingen, 07/2021 Keynote Speaker, The 3rd CVPR Workshop on Dynamic Scene Reconstruction, Virtual, 06/2021

ENABLING THE METAVERSE WITH 3D DEEP LEARNING

Speaker, KoVRA Global Advanced Technology Training Workshop 2021 (Part 2), Virtual, 12/2021

DEEPFAKE PRODUCTION: TECHNOLOGY, DETECTION, POTENTIAL

Speaker, Deepfake Video Project Huddle, The University of Sydney, Sydney, 10/2021

THE FASHION INDUSTRY COULD BE THE KILLER APP FOR DIGITAL HUMANS

Speaker, View Conference 2021, Featured Sessions, Torino, 10/2021

FACING FORWARD

Speaker, Pacific Graphics 2021, Featured Sessions, Wellington, 10/2021

BEYOND TERRORISM, CYBER, AND PANDEMICS: WHAT'S NEXT?

Speaker, Singapore Defense Technology Summit, Singapore, 10/2021

APPLICATIONS IN AI: DEEPFAKES

Speaker, McKinsey & Company T-30 Summit 2021, Carmel, 09/2021

UNPACKING DEEPFAKES - CREATION AND DISSEMINATION OF DEEPFAKES

Keynote Speaker, Academy of International Affairs: The Geopolitics of Disinformation 2022, Bonn, 08/2022 Invited Talk, Princeton University, Princeton, 04/2022 Invited Talk, Singapore Defense Science & Technology Agency, Virtual, 09/2021 Speaker, United Nations Institute for Disarmament Research: the 2021 Innovations Dialogue, Geneva, 08/2021

BE YOURSELF. OR NOT.

Speaker, Virtual L'OréalCon 2021, Virtual, 06/2021

MASTERCLASS: RISKS AND OPPORTUNITIES OF DEEPFAKES

Speaker, 50th St. Gallen Symposium, St. Gallen, 05/2021

MOTION STYLOMETRY FOR AI-SYNTHESIZED MEDIA

Speaker, DARPA SemaFor PI Meeting #2, Arlington, 05/2021

AI-GENERATED DIGITAL HUMANS

Speaker, TikTok Lecture Series, ByteDance, Virtual, 05/2021 Speaker, FMX 2021, Stuttgart, 05/2021 Speaker, Data Science Hour, Ericsson Research, Santa Clara, 4/2021 Speaker, TUM AI Lecture Series 2021, Munich, 4/2021 Keynote Speaker, SimAUD 2021 Human+, Los Angeles, 4/2021 Keynote Speaker, VFXRIO Live 2021, Rio de Janeiro, 3/2021

DIGITAL HUMANS FOR DIGITAL TWINS

Speaker, Nvidia GTC 2021, Virtual, 4/2021

AR/VR - WILL IT BE MAINSTREAM? WHEN?

Speaker, McKinsey & Company AI & Disruption 2.0 Series 2021, Virtual, 02/2021

INSIDE DEEPFAKES

Speaker, Fair Media Council Fast Chat LIVE, Virtual, 02/2021

MEDIA FORENSICS: WHAT THE DEEP FAKE?

Speaker, USC Sidney Harman Academy for Polymathic Study, University of Southern California, Los Angeles, 01/2021

MAKING AVATARS AND VOLUMETRIC TELEPORTATION ACCESSIBLE USING 3D DEEP LEARNING

Keynote Speaker, IEEE WACV 2021, Waikoloa, 01/2021 Speaker, HKUCS Computer Vision Lab Virtual Workshop Series, University of Hong Kong, Hong Kong, 01/2021

DIGITAL HUMANS ARE BACK! CREATING AND USING BELIEVABLE AVATARS IN THE AGE OF COVID

Speaker, SIGGRAPH Asia 2020, Featured Sessions, Virtual, 12/2020

THE DANGER OF DEEPFAKES

Speaker, Web Summit 2020, Lisbon, 12/2020 Invited Talk, University of Virginia, Charlottesville, 10/2020

VIRTUAL CONNECTIVITY AND AVATARS IN A POST-PANDEMIC WORLD

Keynote Speaker, Future Summit 2020, Virtual, 11/2020 Speaker, Digital DNA 2020 Summit, Virtual, 11/2020 Speaker, Brand Week Istanbul 2020, Istanbul, 11/2020 Keynote Speaker, Infinity Festival 2020, Los Angeles, 11/2020 Speaker, Couch Lesson: AI + Reality, Goethe Institut, Virtual, 10/2020 Speaker, 4th Global Programmers' Festival 2020, Xi'an, 10/2020 Keynote Speaker, CSIRO Symposium: The Future of Meetings, Sydney, 09/2020 Keynote Speaker, McKinsey Artificial Intelligence Webinar, Redwood City, 09/2020 Keynote Speaker, 2nd ECCV Workshop on Sensing, Understanding, and Synthesizing Humans, Glasgow, 08/2020

DATA, DEEP FAKES, FAKE NEWS – THE FUTURE

Speaker, The Now! Fest 2020, Virtual, 09/2020

AI-SYNTHESIZED HUMANS: OPPORTUNITY & THREAT

Speaker, Annual Congressional European Parliamentary Initiative 2020, Washington D.C., 09/2020

VIRTUAL AVATARS AND VOLUMETRIC TELEPORTATION

Keynote Speaker, ECCV Workshop on Shape Recovery from Partial Textured 3D Scans, Glasgow, 08/2020

DEEPFAKES AND STYLOMETRY FOR DETECTION AND ATTRIBUTION

Speaker, DARPA SemaFor Kickoff Meeting 2020, Arlington, 08/2020

DEEPFAKES & FACIAL STYLOMETRY

Speaker, DARPA SemaFor Internal Kickoff Meeting 2020, Berkeley, 08/2020

ETHICAL CONSIDERATIONS IN SOFTWARE PROJECTS

Speaker, University of Queensland, Brisbane, 07/2020

FYC: AN A.I. EXPERIMENT

Speaker, Zoom Virtual Beings Summit 2020, San Francisco, 07/2020

HUMAN DIGITIZATION IN A POST-COVID-19 WORLD

Keynote Speaker, CVPR Workshop on Media Forensics, Seattle, 06/2020 Speaker, RealTime Conference 2020, New York, 06/2020

OUR NEW ALGORITHMIC WORLD ORDER: COVID-19, SURVEILLANCE & END OF TRUTH

Speaker, Hot Docs Big Ideas Conversation, Toronto, 05/2020

FROM #SOCIALDISTANCING TO #CONNECTINGVIRTUALLY

Speaker, Amazon Virtual Humans Workshop, Seattle, 04/2020

DEEPFAKES AND APPLICATIONS IN E-COMMERCE

Speaker, McKinsey & Company NWDS 2020, San Francisco, 03/2020

AI-DRIVEN COMPLETE HUMAN DIGITIZATION AND PERFORMANCE CAPTURE

Speaker, ONR HPT&E Technical Review: Warrior Resilience 2020, Orlando Science Center, Orlando, 02/2020

DEEPFAKES: DO NOT BELIEVE WHAT YOU SEE

Speaker, World Economic Forum: Annual Meeting 2020, Davos, 01/2020

DIGITAL HUMANS & DEEP FAKES

Keynote Speaker, VFXRIO 2019, Rio de Janeiro, 11/2019

AI-DRIVEN HUMAN AND CONTENT DIGITIZATION

Speaker, Amazon Research Days 2019, Los Angeles, 11/2019 Keynote Speaker, Infinity Festival 2019, Los Angeles, 11/2019 Speaker, USC Viterbi Grand Challenge Scholars Lecture Series, Los Angeles, 11/2019 Speaker, USC Viterbi Computer Science Advisory Board Meeting, Los Angeles, 11/2019 Keynote Speaker, 10th International Workshop on Human Behaviour Understanding, ICCV 2019, Seoul, 10/2019 Speaker, 3rd Global Programmers' Festival 2019, Xi'an, 10/2019 Invited Talk, GAMES (Graphics And Mixed Environment Symposium) Webinar, Los Angeles, 10/2019 Invited Talk, MIT Computer Vision Seminar, Massachusetts Institute of Technology, Cambridge, 09/2019

AI-DRIVEN 3D SHAPE AND MOTION SYNTHESIS

Speaker, UARC Technical Advisory Board Meeting 2019, Los Angeles, 11/2019

IS THAT REAL? DEEPFAKES AND TRUSTED CONTENT

Speaker, NAB Show 2019, New York, 10/2019

AI-BASED TELEPORTATION

Speaker, Second CONIX Annual Review 2019, Carnegie Mellon University, Pittsburgh, 10/2019

COMPLETE HUMAN DIGITIZATION USING PIXEL-ALIGNED IMPLICIT FUNCTIONS

Speaker, ONR HPT&E Technical Review and S&T Expo, Quantico US Marine Corps Base, Stafford County, 09/2019

REIMAGINING INNOVATION IN ERA OF AI: FROM VIRTUAL BEINGS TO DEEPFAKES

Speaker, MIT Technology Review EmTech 2019, Cambridge, 09/2019

CONNECTING 3D SHAPES AND 2D IMAGES USING AI AND DIFFERENTIABLE RENDERING *Speaker, Scenes from Video IV, San Bernardo, 09/2019*

DESIGNING A HUMAN-CENTERED FUTURE

Speaker, World Economic Forum: Annual Meeting of the New Champions, Dalian, 07/2019

AI AND HUMAN DIGITIZATION: WHEN SEEING IS NOT BELIEVING?

Speaker, DARPA ISAT Summer Conference 2019, Woods Hole, 08/2019 Speaker, Virtual Beings Summit, San Francisco, 07/2019 Speaker, World Economic Forum: Technology Pioneers Welcome Reception & Dinner, Dalian, 07/2019 Speaker, CVPR Workshop on 3D Humans 2019, Long Beach, 06/2019 Speaker, Refactor Camp 2019, Santa Monica, 06/2019 Keynote Speaker, Vivid Sydney 2019, Sydney, 06/2019 Invited Talk, The University of New South Wales, Sydney, 06/2019 Speaker, Naval Postgraduate School, MOVES Institute, Monterey, 05/2019 Speaker, ICSF Robotics & AI in Extreme Environments, ARL West, Los Angeles, 03/2019 Speaker, DARPA MediFor PI Meeting 2019, DARPA Conference Center, Arlington, 02/2019 Speaker, MIT Technology Review EmTech Asia 2019, Singapore, 01/2019 Keynote Speaker, DISRUPT.SYDNEY 2018, Sydney, 09/2018 Speaker, IET EngTalks, London, 09/2018

PINSCREEN/USC/ICT OR: HOW I LEARNED TO STOP WORRYING AND LOVE 3 JOBS

Speaker, CMIC Workshop 2019, Computational Media Innovation Centre, Victoria University, Wellington, 04/2019

COMPLETE 3D HUMAN DIGITIZATION

Speaker, ONR HPT&E Technical Review: Warrior Resilience 2019, Orlando Science Center, Orlando, 02/2019

PHOTOREALISTIC HUMAN DIGITIZATION AND RENDERING USING DEEP LEARNING

Speaker, Softbank Open Innovation The Second BBM Summit 2018, Hakodate, 12/2018 Invited Talk, Sony Corporation, Tokyo, 12/2018 Invited Talk, Waseda University, Tokyo, 12/2018 Keynote Speaker, VRST 2018, Tokyo, 12/2018 Invited Talk, Dreamscape Immersive, Los Angeles, 08/2018 Invited Talk, Amazon, Seattle, 08/2018 Speaker, US Army TRADOC Workshop 2018, Los Angeles, 08/2018 Speaker, Machine Learning for 3D Understanding, TUM Institute for Advanced Study, Munich, 07/2018 Speaker, Sixth International Workshop on Computer Vision 2018, Modena, 05/2018 Keynote Speaker, CMS Meeting of the Minds, Caltech, Pasadena, 05/2018

THE FUTURE OF MIXED REALITY

Speaker, First CONIX Annual Review 2018, Carnegie Mellon University, Pittsburgh, 09/2018

3D AVATARS, VIRTUAL REALITY, AND DEEP LEARNING

Speaker, USC London Delegation Trip 2018, London, 02/2018

THE FUTURE OF FAKE NEWS

Speaker, World Congress of Science and Factual Producers, San Francisco, 12/2017

VIRTUAL AVATAR CREATION USING DEEP LEARNING

Speaker, SIGGRAPH Asia Symposium on AR and VR 2017, Bangkok, 12/2017

DIGITAL HUMAN TELEPORTATION USING DEEP LEARNING

Speaker, USC Viterbi Corporate Advisory Board Meeting, Los Angeles, 04/2018 Keynote Speaker, CVMP 2017, London, 11/2017 Speaker, Sony US Research Center, San Jose, 11/2017 Keynote Speaker, SoftBank Ventures Forum 2017, Seoul, 10/2017 Speaker, USC China Miniforum, Los Angeles, 9/2017 Speaker, SCA 2017 Symposium on Computer Animation, Los Angeles, 7/2017 Keynote Speaker, ICVSS 2017 International Computer Vision Summer School, Sicily, 7/2017 Keynote Speaker, ACM SIGGRAPH Taipei Chapter Computer Graphics Workshop 2017, Taichung, 6/2017 Keynote Speaker, S3PM 2017 International Convention on Shape, Solid, Structure, & Physical Modeling, Berkeley, 6/2017 Speaker, FMX 2017, Stuttgart, 05/2017 Invited Talk, Ochanomizu University, Tokyo, 2/2017

AVATAR DIGITIZATION AND IMMERSIVE COMMUNICATION USING DEEP LEARNING

Speaker, UARC Technical Advisory Board Meeting 2017, Los Angeles, 09/2017

CAPTURE, RENDERING, AND DISPLAY FOR VIRTUAL HUMANS

Speaker, UARC ICT Mission Projects 2017, Los Angeles, 02/2017

LEARNING CORRESPONDENCES BETWEEN CLOTHED HUMAN SHAPES

Speaker, ECCV Workshop on Geometry Meets Deep Learning 2016, Amsterdam, 10/2016

MARKERLESS MOTION CAPTURE

Speaker, Human Performance, Training & Education Tech Review, Quantico US Marine Corps Base, Stafford County, 10/2016

REAL-TIME FACIAL MOTION CAPTURE AND ITS APPLICATIONS

Speaker, 4th Huawei Smart Device Summit on Multimedia Technology, Shenzhen, 09/2016

DEMOCRATIZING HUMAN DIGITIZATION

Invited talk, Nickelodeon Animation Studio, Burbank, 02/2017 Keynote Speaker, SIGGRAPH Asia Workshop on Virtual Reality Meets Physical Reality 2016, Macao, 12/2016 Speaker, The Real Deal @ USC, Los Angeles, 11/2016 Speaker, TEDxHollywood, Los Angeles, 09/2016

DEEP LEARNING: A NEW TOOL FOR CONTENT CREATION AND GAME DESIGN

Speaker, SIGGRAPH 2016 Special Session, Open Problems in Real-Time Rendering, Anaheim, 07/2016

TÊTE-À-TÊTE IN CYBERSPACE

Speaker, Fifth International Workshop on Computer Vision 2016, Lecce, 05/2016

DIGITIZING HUMANS INTO VR USING DEEP LEARNING

Speaker, REAL 2016, San Francisco, 3/2016 Speaker, NVidia Deep Learning Workshop, Los Angeles, 02/2016

MARKERLESS PERFORMANCE CAPTURE FOR AUTOMATED FUNCTIONAL MOVEMENT SYSTEM

Speaker, Warrior Resilience Tech Review, Office of Naval Research, Arlington, 02/2016

BRIDGING PHYSICAL AND DIGITAL WORLDS

Speaker, 16th KOCSEA Technical Symposium 2015, Harvey Mudd College, Claremont, 12/2015 Speaker, SLUSH Conference 2015, Helsinki, 11/2015 Speaker, USC Global Conference 2015, Shanghai, 10/2015

HUMAN DIGITIZATION AND FACIAL PERFORMANCE CAPTURE FOR SOCIAL INTERACTIONS IN VR

Speaker, VRLA Winter Expo, Los Angeles, 01/2016 Invited Talk, Google, Seattle, 10/2015 Invited Talk, Disney Consumer Products, Glendale, 07/2015 Invited Talk, MIT Computer Graphics Group, Massachusetts Institute of Technology, Cambridge, 06/2015

SOCIAL INTERACTION IN CYBERSPACE

Speaker, SLUSH Future Brunch, No Name Club, Los Angeles, 05/2015

DATA-DRIVEN HAIRSTYLING

Speaker, Workshop on Functoriality in Geometric Data 2015, HKUST IAS, Hong Kong, 04/2015

IMMERSIVE TELEPRESENCE WITH 3D SENSING AND VR HMD

Speaker, USC Integrated Media Systems Center Retreat 2015, Los Angeles, 04/2015

DEMOCRATIZING 3D HUMAN CAPTURE: GETTING HAIRY!

Invited Talk, Google, Mountain View, 09/2015 Speaker, Rotary Club, Santa Monica, 09/2015 Invited Talk, Intel, Santa Clara, 06/2015 Invited Talk, Apple, Cupertino, 05/2015 IST Lunch Bunch, Caltech, Pasadena, 05/2015 Invited Talk, SnapChat, Venice, 04/2015 Speaker, LA ACM SIGGRAPH Innovative Research in Computer Graphics at USC and ICT, Los Angeles, 03/2015 Keynote Speaker, International Conference on 3D Vision, Tokyo, 12/2014 Keynote Speaker, ACM SIGGRAPH Conference on Motion in Games 2014, Los Angeles, 11/2014

THE FUTURE OF EXPERIENCING REALITY

Speaker, New York Global Conversation 2014, New York, 10/2014

ON THE FUTURE OF DIGITAL CHARACTERS

Keynote Speaker, Vivid Sydney 2014, Sydney, 06/2014

HUMAN CAPTURE WITH DEPTH SENSORS

Keynote Speaker, Making Augmented Reality Real, NAIST, Nara 08/2014 Invited Talk, Victoria University, Wellington, 07/2014 Chalk Talk, Weta Digital, Wellington, 07/2014 Invited Talk, Pelican Imaging Corporation, Mountain View, 05/2014

3D SELFIES!

Speaker, Depth Camera Birds of Feather, SIGGRAPH 2014, Vancouver, 08/2014 Speaker, FMX 2014, Stuttgart, 04/2014

DEMOCRATIZING 3D SCANNING FOR 3D PRINTING

Speaker, USC Trustee Conference, La Quinta, 03/2014

3D HUMAN CAPTURE: FROM VFX TO THE MAINSTREAM

Speaker, Interactive Media Forum, USC's School of Cinematic Arts, Los Angeles, 04/2014 Speaker, CESASC 52nd Annual Convention, San Gabriel, 04/2014 Invited Talk, University of California, Santa Barbara, 02/2014

HOW DEPTH SENSING TECHNOLOGY WILL CHANGE US

Speaker, Tech Plus Forum (tech+), Seoul, 11/2013

DEMOCRATIZING HUMAN CAPTURE

TR35 Talk, MIT Technology EmTech 2013, Cambridge, 10/2013

3D HUMAN CAPTURE FOR EVERYONE

Invited Talk, SIAT Chinese Academy of Sciences, Shenzhen, 11/2013 Invited Talk, Harvard University, Cambridge, 10/2013

LOW-IMPACT HUMAN DIGITIZATION AND PERFORMANCE CAPTURE

Invited Talk, Dreamworks Animation, Glendale, 08/2013

DIGITIZING HUMANS IN MOTION FROM A GEOMETRIC PERSPECTIVE

3D Imaging and Computing 2012, National Chiao Tung University, Hsinchu, 12/2012

DYNAMIC SHAPE RECONSTRUCTION AND TRACKING

R&D Forum, Industrial Light & Magic, Letterman Digital Arts Center, San Francisco, 04/2012

GEOMETRIC CAPTURE OF HUMAN PERFORMANCES

Faculty Candidate Seminars, Department of Computer Science, Columbia University, New York, 03/2012
Guest Presentation, Rhythm & Hues Studios, Los Angeles, 03/2012
Chalk Talk, Digital Domain, Venice, 03/2012
CS Colloquium Series, Computer Science Department, University of Southern California, Los Angeles, 03/2012

MAYA FOR GRAPHICS SCIENTISTS

Invited Talk, Princeton Computer Graphics Group, Princeton University, New Jersey, 02/2012

TRACKING DEFORMABLE SURFACES

Computer Graphics Reading Group, University of Pennsylvania, Philadelphia, 01/2012

CAPTURING 3D ANIMATION FOR ENTERTAINMENT AND SCIENCES *CVGC Seminar, Columbia Computer Graphics Group, Columbia University, New York, 12/2011*

DYNAMIC SHAPE CAPTURE WITH APPLICATIONS IN ART AND SCIENCES Invited Talk, Microsoft, Redmond, 11/2011

NON-RIGID REGISTRATION IN ENTERTAINMENT AND SCIENCE

Invited Talk, Department for Perceiving Systems, Max-Planck-Institut für Intelligente Systeme, Tübingen, 09/2011

HUMAN BODIES, FACES, AND HAIR

Guest Lecture, Courant Institute of Mathematical Sciences, New York University, New York, 09/2011

ROBUST NON-RIGID 3D ALIGNMENT AND APPLICATIONS

R&D Seminar, Vision Technologies, SRI International/Sarnoff Corporation, New Jersey, 07/2011

CAPTURE, RECONSTRUCT, TRACK, RIG, RETARGET!

Invited Talk, Princeton Computer Graphics Group, Princeton University, New Jersey, 08/2010

INVERSE ENGINEERING DYNAMIC SHAPES FOR COMPUTER ANIMATION

Invited Talk, Courant Institute of Mathematical Sciences, New York University, New York, 08/2010

ANIMATION RECONSTRUCTION

Invited Talk, Columbia Computer Graphics Group, Columbia University, New York, 08/2010

GENERATING BLENDSHAPES FROM EXAMPLES AND CAPTURING WATERTIGHT HUMAN PERFORMANCES

R&D Seminar, Industrial Light & Magic, Letterman Digital Arts Center, San Francisco, 08/2010

A PRACTICAL FACIAL ANIMATION SYSTEM: FROM CAPTURE TO RETARGETING

Research Seminar, Pixar Animation Studios, Emeryville, 08/2010

ART-DIRECTABLE AND DATA-DRIVEN FACIAL ANIMATION

Invited Talk, Institute of Animation, Visual Effects and Digital Postproduction, Filmakademie Baden-Württemberg, Ludwigsburg, 05/2010

ROBUST RECONSTRUCTION OF DYNAMIC SHAPES AND REAL-TIME FACIAL ANIMATION

Invited Talk, Institute for Creative Technologies, University of Southern California, Marina del Rey, 11/2009

DEFORMING GEOMETRY RECONSTRUCTION AND LIVE FACIAL PUPPETRY

R&D Seminar, Industrial Light & Magic, Letterman Digital Arts Center, San Francisco, 10/2009

ANIMATION RECONSTRUCTION FROM A SINGLE-VIEW

Invited Talk, Computer Graphics Department, Max-Planck-Institut für Informatik, Saarbrücken, 05/2009

ACTIVE SHAPE ACQUISITION: FROM IMAGES TO 3-D SURFACES

Invited Talk, Graduate School of Global Information and Telecommunication Studies, Waseda University, Tokyo, 06/2006

3D SCANNING FOR EVERYONE

Ninth SIAM Conference on Geometric Design and Computing (SIAM-GD'05), Phoenix, Arizona, 10/2005

SURFACE RECONSTRUCTION USING COLORED STRIPE PROJECTIONS

Graphics Lunch Seminar, Computer Graphics Laboratory, ETH Zurich, 09/2005

REKONSTRUKTION MIT STRUKTURIERTEM LICHT

First Status Report Meeting of the Institute for Scientific Computing and Mathematical Modeling, Universität Karlsruhe (TH), 04/2005

SOFTWARE & DATASETS

Expo Dubai Xplorer

https://apps.apple.com/app/expo-xplorer/id1584208919

The official multi-player metaverse experience for the world expo 2020 in Dubai developed by Magnopus and Pinscreen. Users can digitize their own AI-powered avatars and connect with others in real-time across the largest AR/VR experience deployed in the world with an interactive digital twin of the 4.38km² Expo site.

Pinscreen

http://www.pinscreen.com

A mobile app that allows anyone to instantly create a 3D avatar by uploading a selfie or an arbitrary 2D photograph. The avatar can then be animated using the phone camera and produce AR selfie content or Animojis. The software can be downloaded from Apple's App Store and has been developed by the entire Pinscreen team.

USC-HairSalon

A large publicly accessible 3D hairstyle database for hair capture, modeling, simulation, and rendering research. This data collection is also a great resource for benchmark and evaluation purposes. My co-authors are Liwen Hu, Chongyang Ma, and Linjie Luo.

Shapify.me

http://www.shapify.me

A free application for creating 3D self-portraits directly using Microsoft's Kinect sensor. A person rotates in front of the sensor and the software automatiaclly produces a complete textured digital model of the person. The 3D model can be uploaded to a server and 3D printed. My co-authors are E. Vouga, A. Gudym, and G. Gusev.

ILM's Monster Mirror

Industrial Light & Magic's proprietary depth sensor-driven real-time facial animation system for instantaneous high fidelity facial performance capture for virtual filmmaking. The calibration-free system sets the current bar for realtime facial tracking accuracy and robustness. I co-developed the software with J. Yu, Y. Ye, and C. Bregler.

BeNTO 3D

http://www.bento3d.com

An easy to use geometry processing application created exclusively for Mac. The Cocoa based tool distinguishes from other competitors in that development of additional plugins and GUI extensions are considerably simplified.

faceshift

http://www.faceshift.com

A software for real-time and markerless facial performance capture using Microsoft's Kinect sensor. The Qt-based application runs on Mac OS X and Windows 7 and is co-developed with T. Weise and S. Bouaziz. Faceshift has been acquired by Apple Inc. and its technology has been incorporated into the iPhone X.

Artec Studio

http://www.artec3d.com

Development of a state-of-the-art geometry processing pipeline for aligning and merging non-rigid 3D scan data.

PROFESSIONAL ACTIVITIES

Co-Curator and Member of the Global Future Councils

World Economic Forum (WEF) - Virtual and Augmented Reality Transformation Maps 2017-2022

Editor

International Journal of Computer Vision Special Issue 2022

Associate Editor Computer Graphics Forum 2016-2019

Organizer

DARPA ISAT Workshop: Metaverse Augmentation for Defense 2022, Berkeley, 02/2022 (MAD) ACM SIGGRAPH Asia 2019 Workshop: Truth in Graphics and the Future of AI-Generated Content, Brisbane, 11/2019 CONIX Mixed Reality Workshop 2018, USC Institute for Creative Technologies, Playa Vista, 08/2018

Program Committee (Computer Graphics)

ACM SIGGRAPH 2015 and 2016 ACM SIGGRAPH Asia 2017 and 2018 ACM SIGGRAPH Asia (E-Tech) 2013, 2014, 2015, and 2016 ACM SIGGRAPH Asia (Courses) 2020 ACM SIGGRAPH Asia (Technical Communications & Posters) 2014, 2015, 2016, and 2021 ACM SIGGRAPH Asia (Symposium in Mobile Graphics and Interactive Applications) 2015 Symposium on Computer Animation 2013, 2014, 2015, 2016, 2017, 2018, and 2019 Symposium on Geometry Processing 2012, 2016, 2017, 2018, and 2019 Eurographics 2014, 2015, and 2016 Eurographics (STAR) 2015 Eurographics (Short Papers) 2013, 2014, and 2015 Pacific Graphics 2012, 2013, 2014, 2015, 2016, 2017, and 2019 Shape Modeling International 2013 and 2017 International Conference on Computer Animation and Social Agents 2014, 2015, and 2016

Program Committee (Computer Vision)

IEEE International Conference on Computer Vision and Pattern Recognition 2017, and 2018 IEEE CVPR Workshop on Morphable Face Models: from Present to Future 2018 International Conference on 3D Vision 2014 and 2015 International Symposium on 3D Data Processing, Visualization and Transmission 2010 Workshop on Non-rigid Shape Analysis and Deformable Image Alignment 2010, 2011, 2012, and 2014

Reviewer

Nature Communications 2020 ACM SIGGRAPH 2008, 2009, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, and 2021 ACM SIGGRAPH Asia 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, and 2022 ACM Transaction on Graphics 2010, 2011, 2013, 2015, 2016, 2017, 2018, and 2019 IEEE International Conference on Computer Vision and Pattern Recognition 2016, 2017, 2018, 2019, 2020, 2021, 2022 International Conference on Computer Vision 2017 and 2019 European Conference on Computer Vision 2016 and 2020 ACM User Interface software and Technology Symposium 2014 Symposium on Computer Animation 2013, 2014, 2015, 2016, 2017, 2018, and 2019 Symposium on Geometry Processing 2007, 2008, 2012, 2016, 2017, 2018, and 2019 ACM Computing Surveys 2021 Eurographics 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2020 Computer Graphics Forum 2010, 2011, 2016, 2017, and 2018 International Conference on 3D Vision 2014, 2015, 2017, and 2019 Workshop for Women in Machine Learning 2018 IEEE International Symposium on mixed and Augmented Reality 2015 3D Data Processing, Visualization and Transmission 2010 Non-rigid Shape Analysis and Deformable Image Alignment 2010, 2011, 2012, and 2014 Transactions on Visualization and Computer Graphics 2009, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2021, 2022 Transactions on Pattern Analysis and Machine Intelligence 2007, 2012, and 2017 International Journal of Computer Vision 2015 **IEEE Computer Graphics and Applications 2013** International Conference on Computer Animation and Social Agents 2014, 2015, and 2016 EURASIP Journal on Advances in Signal Processing 2011 Graphical Models 2014

Computers & Graphics 2013 and 2014 Asian Conference on Computer Vision 2010 Pacific Graphics 2009, 2011, 2012, 2013, 2014, 2015, 2016, 2017, and 2019 Vision, Modeling, and Visualization Workshop 2006 Geometric Modeling and Processing 2006 Computer-Aided Design 2013

Chair

DARPA ISAT Study 2021: Metaverse Augmentation for Defense (MAD) Chair (Co-Chair: Jaron Lanier, Michael Luby) DARPA ISAT Virtual Woods Hole 2021, "Cool Stuff" Chair DARPA ISAT Virtual Woods Hole 2020, "Cool Stuff" Chair International Conference on 3D Vision 2019 Area Chair International Conference on 3D Vision 2017 Area Chair SIGGRAPH Asia 2018 Session Chair SIGGRAPH Asia 2017 Session Chair SIGGRAPH 2017 Session Chair SIGGRAPH 2016 Session Chair SIGGRAPH 2016 Session Chair SIGGRAPH 2015 Session Chair SIGGRAPH Asia (E-Tech) Prize 2013 and 2014 International Conference on 3D Vision 2015 Area Chair

Panels

Judge's Panel for ACM SIGGRAPH Asia 2022 Real-Time Live!	08/2022
Judge's Panel for the MIT TR 35 Innovators of 2022	03/2022
Judge's Panel for the MIT TR 35 Innovators of 2021	03/2021
European Research Council Research Proposal	05/2020
Judge's Panel for the MIT TR 35 Innovators of 2020	03/2020
Judge's Panel for the MIT TR 35 Innovators of 2019	03/2019
National Science Foundation (FW-HTF) Research Proposal	07/2018
Judge's Panel for the MIT TR 35 Innovators of 2018	03/2018
Qiu Shi Outstanding Young Scholar Award Selection Committee	05/2017
Judge's Panel for the MIT TR 35 Innovators of 2017	05/2017
European Research Council Research Proposal	12/2016
Judge's Panel for the MIT TR 35 Innovators of 2016	05/2016
European Research Council Research Proposal	12/2015
Judge's Panel for the MIT TR 35 Innovators of 2015	04/2014
Swiss National Science Foundation Research Proposal	12/2014
Judge's Panel for the MIT TR 35 Innovators of 2014	05/2014

Membership

World Economic Forum Global Future Councils	11/2018 - 07/2022
ACM SIGGRAPH	06/2006 - ongoing
IEEE	09/2019 - ongoing
Eurographics Association	08/2011 - ongoing
National Academy of Inventors	05/2017 - ongoing
World Future Society	08/2017 - ongoing

Testimony

Senate Committee of the 66th Washington State Legislature (SB 6513: Restricting the use of deepfake audio and visual media in campaigns for elective office), 01/2020

BOARD

EXTRA ACTIVITIES

TECHNICAL SKILLS

Operating Systems

Mac OS X, Linux/Unix, and Windows

Programming Languages

C/C++, Objective C, Python, Java, and HTML/CSS

Professional Tools

Unity, Autodesk Maya, Autodesk 3ds MAX, Pixologic ZBrush, Zeno, Adobe AfterEffects, Adobe Premiere, Adobe Photoshop, and Adobe Illustrator

MILITARY SERVICE

German Federal Armed Forces

Division for Special Operations (DSO) - Airborne Brigade 26 2nd Company of the Antitank Parachute Battalion 262, Merzig, Germany

• German parachutist badge in bronze

REFERENCES

Prof. Dr. Trevor Darrell

Professor of Electrical Engineering and Computer ScienceUniversity of California, Berkeley, EECS DepartmentEmailtrevor@eecs.berkeley.eduHome pagehttp://people.eecs.berkeley.edu/~trevor/

Prof. Dr. Leonidas J. Guibas

Paul Pigott Professor of Computer Science and Electrical EngineeringStanford University, Computer Science DepartmentEmailguibas@cs.stanford.eduHome pagehttp://geometry.stanford.edu/

11/1999 - 08/2000

Prof. Dr. Michael J. Black

Director and Distinguished Amazon ScholarMax Planck Institute for Intelligent Systems, Perceiving Systems DepartmentEmailblack@tuebingen.mpg.deHome pagehttp://ps.is.tue.mpg.de

Prof. Dr. Steven Seitz

Robert E. Dinning Professor of Computer Science and Director of Teleportation at GoogleUniversity of Washington, Department of Computer Science and EngineeringEmailseitz@cs.washington.eduHome pagehttps://www.cs.washington.edu/homes/seitz

Prof. Dr. Hany Farid

Professor of Electrical Engineering and Computer ScienceUniversity of California, Berkeley, EECS Department and School of InformationEmailhfarid@berkeley.eduHome pagehttps://farid.berkeley.eduProf. Dr. Yaser Ajmal SheikhAssociate Professor of Computer Science and Director at Facebook Reality Labs

Carnegie Mellon University, Robotics Institute Email yaser@cs.cmu.edu Home page http://www.cs.cmu.edu/~yaser/

Dr. Chris Bregler

Director / Principal Scientist Google AI **Email** bregler@google.com **Home page** http://chris.bregler.com/

Kim Libreri

Chief Technology Officer Epic Games Email available upon request Home page http://epicgames.com/