

# Srinath Sridhar

*John E. Savage Assistant Professor, Brown University*  
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🐦 [drsrinathsridha](https://twitter.com/drsrinathsridha)

## Professional Experience

- July 2025– **John E. Savage Assistant Professor of Computer Science, Brown University, Providence, USA.**
- 2020–2025 **Assistant Professor of Computer Science, Brown University, Providence, USA.**
- Oct 2020– **Amazon Scholar, Amazon Robotics LLC, USA.**
- Nov 2024– **Kotak Mahindra Bank Visiting Chair Professor, Indian Institute of Science, Bengaluru, India.**
- 2017–2020 **Postdoctoral Researcher, Stanford University, Stanford, USA.**  
Advisor: Leonidas Guibas. Stanford Artificial Intelligence Laboratory (SAIL).
- 2015–2016 **Research Intern, Microsoft Research Redmond, Seattle, USA.**  
Mentor: Shahram Izadi. Interactive 3D Vision (i3D) Group.

## Education

- 2012–2017 **Max Planck Institute for Informatics / Saarland University, Saarbruecken, Germany.**  
Ph.D. in Computer Science.  
Dissertation: “Tracking Hands in Action for Gesture-based Computer Input.”  
Advisors: Christian Theobalt, Antti Oulasvirta.  
Committee: Bernt Schiele, Hao Li, Hans-Peter Seidel (Chair).
- 2010–2012 **University of Michigan, Ann Arbor, USA.**  
M.S.E. in Electrical Engineering: Systems.  
Major: Computer Vision, Minor: Computer Science.
- 2006–2010 **College of Engineering Guindy, Anna University, Chennai, India.**  
B.E. in Geoinformatics.

## Awards & Fellowships

- 2025 **Best Student Paper** award at WACV 2025 (advisee: Rahul Sajnani).
- 2022 **NSF CAREER** award.
- 2021 **Judith H. Zern 1964 Endowed Teaching Fund** for course development.
- 2021 **Outstanding Reviewer**, CVPR 2021.
- 2021 **Google Research Scholar** Award 2021. The only recipient worldwide in augmented/virtual reality category.
- 2019 **Best Paper Honorable Mention** at Eurographics 2019.
- 2018 Selected as a young researcher to participate in the **Heidelberg Laureate Forum 2018**.
- 2017 **Best Poster Award**, ICCV HANDS Workshop 2017.

- 2016 Selected to participate in the doctoral consortium and received a **travel grant for CVPR 2016**.
- 2013 **ACM Student Travel Grant** for CHI 2013.
- 2012–2016 **Max Planck Fellowship** for PhD studies.
- 2011–2012 **Rackham International Student Fellowship**, University of Michigan, Ann Arbor.
- 2009 **Best Project Award**, *Single View Reconstruction of Buildings*, IIT Delhi. ▶

## Publications [Google Scholar](#)

Ⓟ Ph.D. advisee, Ⓜ Masters/Undergraduate advisee, Ⓥ Visiting Graduate/Undergraduate advisee, \* Equal contribution. Icons (▶, 📄, 🗣️) are hyperlinks to webpages or explanatory videos.


















### Conference Papers (Peer-reviewed)

#### 2025

- [P.46] Hongyu Li, Mingxi Jia, Tuluhan Akbulut, Yu Xiang, George Konidaris, **Srinath Sridhar**. *V-HOP: Visuo-Haptic 6D Object Pose Tracking*. Robotics: Science and Systems Conference (**RSS**) 2025 [Oral]. 🗣️
- [P.45] Aashish Rai, Dilin Wang, Mihir Jain, Nikolaos Sarafianos, Arthur Chen, **Srinath Sridhar**, Aayush Prakash. *UVGS: Reimagining Unstructured 3D Gaussian Splatting using UV Mapping*. Conference on Computer Vision and Pattern Recognition (**CVPR**) 2025. 📄
- [P.44] Kefan Chen\*, Chaerin Min\*, Linguang Zhang, Shreyas Hampali, Cem Keskin, **Srinath Sridhar**. *FoundHand: Large-Scale Domain-Specific Learning for Controllable Hand Image Generation*. Conference on Computer Vision and Pattern Recognition (**CVPR**) 2025 [Highlight]. 📄
- [P.43] Rao Fu\*, Dingxi Zhang\*, Alex Jiang, Wanjia Fu, Austin Funk, Daniel Ritchie, **Srinath Sridhar**. *Giga-Hands: A Massive Annotated Dataset of Bimanual Hand Activities*. Conference on Computer Vision and Pattern Recognition (**CVPR**) 2025 [Highlight]. 📄
- [P.42] Sudarshan Harithas, **Srinath Sridhar**. *MotionGlot: A Multi-Embodied Motion Generation Model*. IEEE International Conference on Robotics and Automation (**ICRA**) 2025. 📄
- [P.41] Hongyu Li, James Akl, **Srinath Sridhar**, Tye Brady, Taskin Padir. *ViTa-Zero: Zero-shot Visuotactile Object 6D Pose Estimation*. IEEE International Conference on Robotics and Automation (**ICRA**) 2025. 📄
- [P.40] Md Faizal Karim\*, Shreya Bollimuntha\*, Mohammed Saad Hashmi, Autrio Das, Gaurav Singh, **Srinath Sridhar**, Arun Kumar Singh, Nagamanikandan Govindan, K Madhava Krishna. *DA-VIL: Adaptive Dual-Arm Manipulation with Reinforcement Learning and Variable Impedance Control*. IEEE International Conference on Robotics and Automation (**ICRA**) 2025. 📄
- [P.39] Rahul Sajjani Ⓟ, Jeroen Vanbaar, Jie Min, Kapil Katyal, **Srinath Sridhar**. *GeoDiffuser: Geometry-Based Image Editing with Diffusion Models*. Winter Conference on Applications of Computer Vision (**WACV**) 2025 [Best Student Paper]. 📄
- [P.38] Aashish Rai Ⓟ, **Srinath Sridhar**. *EgoSonics: Generating Synchronized Audio for Silent Egocentric Videos*. Winter Conference on Applications of Computer Vision (**WACV**) 2025. 📄

#### 2024








- [P.37] Gaurav Singh\* Ⓥ, Sanket Kalwar\*, Md Faizal Karim, Bipasha Sen, Nagamanikandan Govindan, **Srinath Sridhar**, K. Madhava Krishna. *Constrained 6-DoF Grasp Generation on Complex Shapes for Improved Dual-Arm Manipulation*. International Conference on Intelligent Robots and Systems (**IROS**) 2024. 📄



- [P.36] Rao Fu , Zehao Wen, Zichen Liu, **Srinath Sridhar**. *AnyHome: Open-Vocabulary Generation of Structured and Textured 3D Homes*. European Conference on Computer Vision (ECCV) 2024. 
- [P.35] Chandradeep Pokhariya , Ishaan N Shah\*, Angela Xing\* , Zekun Li , Kefan Chen , Avinash Sharma, **Srinath Sridhar**. *MANUS: Markerless Hand-Object Grasp Capture using Articulated 3D Gaussians*. Conference on Computer Vision and Pattern Recognition (CVPR) 2024. 
- [P.34]  Cheng-You Lu\* , Peisen Zhou\* , Angela Xing\* , Chandradeep Pokhariya , Arnab Dey , Ishaan N Shah, Rugved Mavidipalli , Dylan Hu , Andrew Comport, Kefan Chen , **Srinath Sridhar**. *DiVa-360: The Dynamic Visual Dataset for Immersive Neural Fields*. Conference on Computer Vision and Pattern Recognition (CVPR) 2024 [**Highlight**]. 

## 2023





- [P.33] Bipasha Sen\*, Gaurav Singh\*, Aditya Agarwal\*, Rohith Agaram, K Madhava Krishna, **Srinath Sridhar**. *HyP-NeRF: Learning Improved NeRF Priors using a HyperNetwork*. Conference on Neural Information Processing Systems (NeurIPS) 2023. 
- [P.32] Yiqing Liang, Eliot Laidlaw, Alexander Meyerowitz, **Srinath Sridhar**, James Tompkin. *Semantic Attention Flow Fields for Dynamic Scene Decomposition*. International Conference on Computer Vision (ICCV) 2023. 
- [P.31] Ankit Dhiman, Srinath R, Harsh Rangwani, Rishubh Parihar, Lokesh R Boregowda, **Srinath Sridhar**, R Venkatesh Babu. *Strata-NeRF: Neural Radiance Fields for Stratified Scenes*. International Conference on Computer Vision (ICCV) 2023. 
- [P.30] Qiuhong Anna Wei , Sijie Ding , Jeong Joon Park, Rahul Sajnani , Adrien Poulenard, **Srinath Sridhar**, Leonidas Guibas. *LEGO-Net: Learning Regular Rearrangements of Objects in Rooms*. Conference on Computer Vision and Pattern Recognition (CVPR) 2023. 
- [P.29]  Rohith Agaram , Shaurya Dewan, Rahul Sajnani , Adrien Poulenard, Madhava Krishna, **Srinath Sridhar**. *Canonical Fields: Self-Supervised Learning of Pose-Canonicalized Neural Fields*. Conference on Computer Vision and Pattern Recognition (CVPR) 2023 [**Highlight**]. 
- [P.28] Aditya Sanghi, Rao Fu , Vivian Liu, Karl Willis, Hooman Shayani, Amir Hosein Khasahmadi, **Srinath Sridhar**, Daniel Ritchie. *CLIP-Sculptor: Zero-Shot Generation of High-Fidelity and Diverse Shapes from Natural Language*. Conference on Computer Vision and Pattern Recognition (CVPR) 2023. 
- [P.27] Bipasha Sen\*, Aditya Agarwal\*, Gaurav Singh\*, Brojeshwar B., **Srinath Sridhar**, Madhava Krishna. *SCARP: 3D Shape Completion in ARbitrary Poses for Improved Grasping*. IEEE International Conference on Robotics and Automation (ICRA) 2023. 

## 2022




- [P.26] Rao Fu , Xiao Zhan , Yiwen Chen , Daniel Ritchie, **Srinath Sridhar**. *ShapeCrafter: A Recursive Text-Conditioned 3D Shape Generation Model*. Conference on Neural Information Processing Systems (NeurIPS) 2022. 
- [P.25] Xianghao Xu, Yifan Ruan, **Srinath Sridhar**, Daniel Ritchie. *Unsupervised Kinematic Motion Detection for Part-segmented 3D Shape Collections*. ACM Transactions on Graphics (SIGGRAPH) 2022. 
- [P.24] Rahul Sajnani , Adrien Poulenard, Jivitesh Jain, Radhika Dua, Leonidas J. Guibas, **Srinath Sridhar**. *ConDor: Self-Supervised Canonicalization of 3D Pose for Partial Shapes*. Conference on Computer Vision and Pattern Recognition (CVPR) 2022.  

- [P.23] Yiheng Xie , Towaki Takikawa, Shunsuke Saito, Or Litany, Shiqin Yan, Numair Khan, Federico Tombari, James Tompkin, Vincent Sitzmann<sup>+</sup>, **Srinath Sridhar**<sup>+</sup>. *Neural Fields in Visual Computing and Beyond*. Eurographics State of the Art Report (**Eurographics STAR**) 2022 [<sup>+</sup> indicates equal advising]. 














## 2021

- [P.22] Davis Rempe , Tolga Birdal, Aaron Hertzmann, Jimei Yang, **Srinath Sridhar**, Leonidas J. Guibas.  *HuMoR: 3D Human Motion Model for Robust Pose Estimation*. International Conference on Computer Vision (**ICCV**) 2021 [**oral presentation**].  
- [P.21] Rahul Sajnani , Aadil Mehdi Sanchawala , Krishna Murthy Jatavallabhula, **Srinath Sridhar**, K. Madhava Krishna. *DRACO: Weakly Supervised Dense Reconstruction and Canonicalization of Objects*. International Conference on Robotics and Automation (**ICRA**) 2021.  
- [P.20] Zhangsihao Yang , Or Litany, Tolga Birdal, **Srinath Sridhar**, Leonidas J. Guibas. *Continuous Geodesic Convolutions for Learning on 3D Shapes*. Winter Conference on Applications of Computer Vision (**WACV**) 2021.
- [P.19] Or Litany, Ari Morcos, **Srinath Sridhar**, Leonidas J. Guibas, Judy Hoffman. *Representation Learning Through Latent Canonicalizations*. Winter Conference on Applications of Computer Vision (**WACV**) 2021.

## 2020

- [P.18] Davis Rempe , Tolga Birdal, Yongheng Zhao, Zan Gojcic, **Srinath Sridhar**, Leonidas J. Guibas. *CaSPR: Learning Canonical Spatiotemporal Point Cloud Representations*. Conference on Neural Information Processing Systems (**NeurIPS**) 2020. 
- [P.17] Jiahui Lei , **Srinath Sridhar**, Paul Guerrero, Minhyuk Sung, Niloy Mitra, Leonidas J. Guibas. *Pix2Surf: Learning Parametric 3D Surface Models of Objects from Images*. European Conference on Computer Vision (**ECCV**) 2020.  
- [P.16] Davis Rempe , **Srinath Sridhar**, He Wang, Leonidas J. Guibas. *Predicting the Physical Dynamics of Unseen 3D Objects*. Winter Conference on Applications of Computer Vision (**WACV**) 2020. 








## 2019

- [P.15] **Srinath Sridhar**, Davis Rempe , Julien Valentin, Sofien Bouaziz, Leonidas J. Guibas. *Multiview Aggregation for Learning Category-Specific Shape Reconstruction*. Conference on Neural Information Processing Systems (**NeurIPS**) 2019. 
- [P.14] He Wang , **Srinath Sridhar**, Jingwei Huang, Julien Valentin, Shuran Song, Leonidas J. Guibas.  *Normalized Object Coordinate Space for Category-Level 6D Object Pose and Size Estimation*. Conference on Computer Vision and Pattern Recognition (**CVPR**) 2019 [**oral presentation**].  
- [P.13] Davis Rempe , **Srinath Sridhar**, He Wang, Leonidas J. Guibas. *Learning Generalizable Physical Dynamics of 3D Rigid Objects*. Workshop on 3D Scene Understanding for Vision, Graphics and Robotics, **CVPRW** 2019.  
- [P.12] He Wang\* , Soeren Pirk\*, Ersin Yumer, Vladimir Kim, Ozan Sener, **Srinath Sridhar**, Leonidas J. Guibas.  *Learning a Generative Model for Multi-Step Human-Object Interactions from Videos*. **Eurographics** 2019. (\* equal contribution) [**best paper honorable mention**]  




## 2018

- [P.11] Dushyant Mehta, Oleksandr Sotnychenko, Franziska Mueller , Weipeng Xu, **Srinath Sridhar**, Gerard Pons-Moll, Christian Theobalt. *Single-Shot Multi-Person 3D Body Pose Estimation From Monocular RGB Input*. **3DV** 2018.  
- [P.10] Franziska Mueller , Florian Bernard, Oleksandr Sotnychenko, Dushyant Mehta, **Srinath Sridhar**, Dan Casas, Christian Theobalt. *GANerated Hands for Real-time 3D Hand Tracking from Monocular RGB*. Conference on Computer Vision and Pattern Recognition (**CVPR**) 2018.  






## 2017

- [P.9] Franziska Mueller , Dushyant Mehta, Oleksandr Sotnychenko, **Srinath Sridhar**, Dan Casas, Christian Theobalt. *Real-time Hand Tracking under Occlusion from an Egocentric RGB-D Sensor*. International Conference on Computer Vision (**ICCV**) 2017.  
- [P.8] Dushyant Mehta, **Srinath Sridhar**, Oleksandr Sotnychenko, Helge Rhodin, Mohammad Shafiei, Hans-Peter Seidel, Weipeng Xu, Dan Casas, Christian Theobalt. *VNect: Real-time 3D Human Pose Estimation with a Single RGB Camera*. ACM Transactions on Graphics (**SIGGRAPH**) 2017.  
- [P.7] **Srinath Sridhar**, Anders Markussen, Antti Oulasvirta, Christian Theobalt, Sebastian Boring. *Watch-Sense: On- and Above-Skin Input Sensing through a Wearable Depth Sensor*. SIGCHI Conference on Human Factors in Computing Systems (**CHI**) 2017.  



## 2016

- [P.6] **Srinath Sridhar**, Franziska Mueller , Michael Zollhöfer, Dan Casas, Antti Oulasvirta, Christian Theobalt. *Real-time Joint Tracking of a Hand Manipulating an Object from RGB-D Input*. European Conference on Computer Vision (**ECCV**) 2016.  



## 2015

- [P.5] **Srinath Sridhar**, Franziska Mueller , Antti Oulasvirta, Christian Theobalt. *Fast and Robust Hand Tracking Using Detection-Guided Optimization*. Conference on Computer Vision and Pattern Recognition (**CVPR**) 2015.  
- [P.4] **Srinath Sridhar**, Anna Maria Feit, Christian Theobalt, Antti Oulasvirta. *Investigating the Dexterity of Multi-Finger Input for Mid-Air Text Entry*. SIGCHI Conference on Human Factors in Computing Systems (**CHI**) 2015.  



## 2014

- [P.3] **Srinath Sridhar**, Helge Rhodin, Hans-Peter Seidel, Antti Oulasvirta, Christian Theobalt. *Real-time Hand Tracking Using a Sum of Anisotropic Gaussians Model*. International Conference on 3D Vision (**3DV**) 2014 [**oral presentation**].  

## 2013

- [P.2] **Srinath Sridhar**, Antti Oulasvirta, Christian Theobalt. *Interactive Markerless Articulated Hand Motion Tracking using RGB and Depth Data*. International Conference on Computer Vision (**ICCV**) 2013.  
- [P.1] Victor Ng-Thow-Hing, Karlin Bark, Lee Beckwith, Cuong Tran, Rishabh Bhandari, **Srinath Sridhar**. *User-Centered Perspectives for Automotive Augmented Reality*. International Symposium on Mixed and Augmented Reality (**ISMAR**) 2013.

## Other Papers, Posters, Technical Reports, and Blog Posts

- [O.9] Ge Zhang, Or Litany, **Srinath Sridhar**, Leonidas J. Guibas. *StrobeNet: Category-Level Multiview Reconstruction of Articulated Objects*. **arXiv**, 2021.  



- [O.8] **Srinath Sridhar**. *Learning to Generate Human–Object Interactions*. Stanford AI Lab Blog, 2019. 
- [O.7] **Srinath Sridhar**, Gilles Bailly, Elias Heydrich, Antti Oulasvirta, Christian Theobalt. *FullHand: Markerless Skeleton-based Tracking for Free-Hand Interaction*. MPI-I-2016-4-002. Saarbrücken: Max-Planck-Institut für Informatik 2016.
- [O.6] Anna Maria Feit, **Srinath Sridhar**, Christian Theobalt, Antti Oulasvirta. *Investigating Multi-Finger Gestures for Mid-Air Text Entry*. Womencourage 2015.
- [O.5] Anna Maria Feit, Myroslav Bachynskyi, **Srinath Sridhar**. *Towards Multi-Objective Optimization for UI Design*. Workshop on Principles, Techniques and Perspectives on Optimization and HCI, **CHI** 2015.
- [O.4] **Srinath Sridhar**, Antti Oulasvirta, Christian Theobalt. *Fast Tracking of Hand and Finger Articulations Using a Single Depth Camera*. MPI-I-2014-4-002. Saarbrücken: Max-Planck-Institut für Informatik 2014.
- [O.3] **Srinath Sridhar**. *HandSonor: A Customizable Vision-based Control Interface for Musical Expression*. SIGCHI Conference on Human Factors in Computing Systems (**CHI**) 2013.  
- [O.2] **Srinath Sridhar**, Victor Ng-Thow-Hing. *Generation of Virtual Display Surfaces for In-vehicle Contextual Augmented Reality*. International Symposium on Mixed and Augmented Reality (**ISMAR**) 2012.
- [O.1] **Srinath Sridhar**, Vineet Kamat. *CAMFPLAN: A Real-time Markerless Camera Pose Estimation System for Augmented Reality*. UMCEE Report No. 11-01, Department of Civil and Environmental Engineering, University of Michigan, Ann Arbor 2012.

### Patents

- [A.1] Victor Ng-Thow-Hing, **Srinath Sridhar**. *Method to Generate Virtual Display Surfaces from Video Imagery of Road based Scenery*. U.S. Patent, US9135754 B2, 2015. Licensed by Honda Motor Co., Ltd.

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## Mentorship

### Doctoral Students

- 2025– • Gaurav Singh, Computer Science, Brown University
- 2024– • Xiaoyan Cong, Computer Science, Brown University  
*Interned at TikTok.*
- 2023– • Sudarshan Harithas, Computer Science, Brown University  
*Interned at General Robotics.*
- 2023– • Hongyu Li, Computer Science, Brown University  
*Interned at Amazon and RAI Institute.*
- 2023– • Zekun Li, Computer Science, Brown University  
*Interned at Honda Research Institute and Meta.*
- 2023– • Chaerin Min, Computer Science, Brown University  
*Interned at Google.*
- 2023– • Aashish Rai, Computer Science, Brown University  
*Interned at Meta.*

- 2022– • Kefan Chen, Computer Science, Brown University  
*Interned at Meta and Waymo.*
- 2022– • Rahul Sajani, Computer Science, Brown University  
*Interned at Amazon and Adobe.*
- 2021– • Rao Fu, Computer Science, Brown University  
*Interned at Autodesk and Meta.*  
Former
- 2019–2020 • Davis Rempe, Stanford University (co-advised with Leo Guibas)  
*Resulting publications [P.22, P.18, P.16, P.13]. Received an Nvidia Graduate Fellowship, interned at Adobe Research and Nvidia Research. Next: Research Scientist at Nvidia Research.*
- 2017–2019 • He Wang, Stanford University (co-advised with Leo Guibas)  
*Resulting publications [P.14, P.12]. Interned at Google, Facebook AI Research. Next: Assistant Professor at Peking University, and CTO at Galbot.*
- 2015–2017 • Franziska Mueller, MPI Informatics (co-advised with Christian Theobalt)  
*Resulting publications [P.10, P.9]. Received a Google Ph.D. Fellowship, interned at Facebook Reality Labs. Next: Research Scientist at Google Research Zurich.*  
**Postdoctoral Researchers**
- 2024– • Tao Lu, Computer Science, Brown University  
**Undergraduate/Masters Students and Visitors**
- 2024– • Patrick Ortiz, Brown University
- 2024– • Arman Mohammadi, Brown University
- 2023– • Wanjia Fu, Brown University
- 2022– • Angela Xing, Brown University
- 2022– • Theo McArn, Brown University  
Former
- 2023–2024 • Caroline Zhang, Brown University
- 2021–2024 • Qihong (Anna) Wei, Brown University  
*Next: PhD student at CMU.*  
*CRA Outstanding Undergraduate Researcher Honorable Mention.* 📄  
*Randy F. Pausch Undergraduate Summer Research Award.* 📄  
*Norman K. Meyrowitz Award for Outstanding Departmental Service*
- 2023 • Chandradeep Pokhariya, IIIT Hyderabad  
*Next: IIT Delhi.*  
*Ritesh Tiwari Outstanding MS Thesis Award, IIIT Hyderabad.*
- 2023–2024 • Dingxi Zhang,
- 2023 • Dylan Hu, Brown University  
*Next: Microsoft, World Labs.*
- 2022–2023 • Peisen Zhou, Computer Science, Brown University

- 2022–2023 • Yiwen Chen, Computer Science, Brown University  
*Next: PhD student at Northeastern University.*
- 2022–2023 • Cheng-You Lu, Computer Science, Brown University  
*Next: PhD student at Northeastern University.*
- 2022–2023 • Rugved Mavidipalli, Computer Science, Brown University
- 2022–2023 • Jacob Frausto, Brown University  
*Next: Masters student at Stanford University.*
- 2022–2023 • Xiao (Sean) Zhan, Brown University (co-advised with Daniel Ritchie)  
*Next: PhD student at MIT.*
- 2021–2022 • Trevor Houchens, Computer Science, Brown University  
*Next: AI/ML Research Engineer at Aurora Flight Sciences.*
- 2021–2022 • Sijie Ding, Computer Science, Brown University  
*Next: PhD student at Stony Brook University.*
- 2021–2022 • Rahul Sajnani, IIIT Hyderabad  
*Resulting publications [P.21, P.24]. Next: PhD student at Brown.*
- 2021 • Jivitesh Jain, IIIT Hyderabad
- 2021 • Yiheng Xie, Brown University  
*Resulting publication [P.23]. Next: PhD student at Caltech.*
- 2020–2021 • Radhika Dua, KAIST
- 2020–2021 • Ge Zhang, ShanghaiTech (co-advised with Leo Guibas and Or Litany)  
*Resulting report [O.9]. Next: Masters student at the University of Michigan, Ann Arbor.*
- 2019–2020 • Jiahui Lei, Zhejiang University (co-advised with Leo Guibas)  
*Resulting publication [P.17]. Next: PhD student at UPenn.*
- 2019 • Zhangsihao Yang, CMU  
*Resulting publication [P.20].*

#### **Ph.D. Defense/Exam/Proposal Committee**

- Dec 2024 • Xianghao Xu, Brown University
- Sep 2024 • Arnab Dey, Université Côte d'Azur
- Aug 2024 • Shishira Raghunath Maiya, University of Maryland at College Park  
*Expected to graduate 2025.*
- Apr 2024 • Thao Nguyen, Brown University
- Aug 2023 • Walter Goodwin, Wolfson College, Oxford University
- Apr 2023 • Kai Wang, Computer Science, Brown University
- Aug 2022 • Hongyi Fan, Engineering, Brown University
- Aug 2022 • Matthew Corsaro, Computer Science, Brown University

## **Teaching**

### **At Brown**



- Fall 2021, **Introduction to Computer Vision (CSCI 1430).**  
 2022, Spring Enrollment: 103 (2021), 99 (2022), 160 (2024). Taught the introductory computer vision course at Brown  
 2024 for undergraduates and graduate students.
- Spring 2022, **A Practical Introduction to Advanced Robot Perception (CSCI 2952-O).**  
 2023 Enrollment: 19 (2022), 18 (2023). Designed and taught a graduate-level course on 3D computer vision and machine learning for robotics.
- Spring 2021 **Introduction to Computer Vision (CSCI 1430).**  
 Enrollment: 218. Co-taught (with James Tompkin) undergraduate course on computer vision.
- Fall 2020 **Topics in 3D Computer Vision and Machine Learning (CSCI 2952-K).**  
 Enrollment: 18. Designed and taught a graduate-level course on 3D computer vision and machine learning.  
**Before Brown**
- 2013–2016 **Course Assistant, Graduate Seminar on Computer Vision for Computer Graphics, Saarland University.**  
 Graded student work, participated in all discussions, held office hours, and provided individual feedback.
- 2013 **Lecturer, EIT ICT Smart Spaces Summer School, INRIA, Grenoble.**  
 Day-long workshop on “3D Interaction using Hand Motion Tracking” for advanced graduate students. 📖

## Recent Invited Talks & Courses

- January 2024 **Adobe Research, Generative Modelling for 3D Multimodal Interaction Understanding**, Bengaluru, India.
- January 2024 **Indian Institute of Science (IISc), Short Course on Radiance Fields in Visual Computing and Artificial Intelligence**, Bengaluru, India.
- December 2024 **The AI Institute, Towards Robot Understanding of Human Physical Skills**, Boston, MA.
- November 2024 **Carnegie Mellon University & Meta Reality Labs, Generative Modelling for 3D Multimodal Understanding of Human Physical Interactions**, Pittsburgh, PA.
- June 2024 **Workshop on Implicit Neural Representation for Vision, CVPR, Implicit Representations of the Interactive 4D World**, Seattle, WA.
- June 2024 **Second Workshop on Compositional 3D Vision, CVPR, Compositional 3D Understanding and Editing**, Seattle, WA.
- June 2024 **CVPR Area Chair Workshop, Machine Understanding of the Interactive 4D World**, Seattle, WA.
- February 2024 **Indian Institute of Technology Bombay, Machine Understanding of Interactive Scenes**, Mumbai, India.
- December 2023 **Distinguished Speaker at the 30th Anniversary of the Max Planck Institute for Informatics, Towards Robot Understanding of Human Manual Skills ▶**, Saarbruecken, Germany.
- November 2023 **Max Planck Institute for Intelligent Systems, Towards Robot Understanding of Human Manual Skills**, Tuebingen, Germany.
- July 2023 **BIRS Workshop on 3D Generative Models, Building Multimodal Datasets for Immersive Neural Fields**, Banff, Canada.
- June 2023 **Plenoptima Summer School, Neural Fields in 3D Computer Vision**, Rennes, France.
- June 2023 **CVPR O-DRUM Workshop, Multimodal Dynamic 3D Understanding**, Vancouver, Canada.

- May 2023 **University of Maryland**, *Foundation Models and 3D Computer Vision*, College Park, MD.
- March 2023 **Panelist**, *Workshop on Virtual, Augmented, and Mixed-Reality for Human-Robot Interactions at HRI 2023*, Stockholm, Sweden (remote).
- January 2023 **KCIS Lecture, IIIT Hyderabad**, *Learning to Generate, Edit, and Arrange 3D Object Shapes*, Hyderabad, India.
- January 2023 **Indian Institute of Science (IISc)**, *Learning to Generate, Edit, and Arrange 3D Object Shapes*, Bengaluru, India.

## Service







### Service to the Field

- Area Chair CVPR (2024–), ICCV (2023–), ECCV (2024), SIGGRAPH Asia (2023, 2024 - COI Coordinator), IEEE VR Conference Track (2020)
- Grant Panelist/Reviewer NSF (2021, 2022, 2024), Israel Science Foundation (2023)
- Program Committee SIGGRAPH Posters Jury (2022), Eurographics Short Papers (2018), Graphics Replicability Stamp Initiative (2019–2021), and various workshops at CVPR (2015–2016, 2018–2019), ICCV (2017, 2019) and ECCV (2018).
- Organizer Workshop on Neural Fields across Fields: Methods and Applications of Implicit Neural Representations (ICLR 2023), Tutorial on Neural Fields in Computer Vision at CVPR 2022, 3DReps Workshop at ECCV (2020), ICCV (2021)
- Mentor Summer Geometry Initiative (SGI 2022)
- Reviewer CVPR, ICCV, ECCV, NeurIPS, TMLR, AAAI, BMVC, TPAMI, SIGGRAPH Asia, Eurographics, CHI, UIST, IMWUT/UbiComp, IROS, ICRA, CVIU, 3DV, FG, Computer, IEEE VR, ACM ISS, Computing Surveys, IEEE CGA, ICLR.

### Service to Brown

- Chair Ph.D. Admissions Committee (2024)
- Member Ph.D. Admissions Committee (2021–2023)
- Mentor exploreCSR/NSF REU, a semester-long research experience program for underrepresented undergraduates (exploreCSR: 2021–, NSF REU: 2022–).
- Judge Hack@Brown 2021

## Selected Press

- Robin.ly** CVPR 2019 Paper Discussion, Robin.ly, July 30, 2019.  
- Samsung** “Here’s how to design a robot that can cook”, Samsung NEXT Blog, April 30, 2019. 
- SR TV** “VNect”, Saarländischer Rundfunk (German State TV), June 21, 2017. 
- SR TV** “WatchSense”, Saarländischer Rundfunk (German State TV), May 21, 2017. 
- IEEE** “Control Your Smartwatch without Touching It”, IEEE Electronics 360, May 4, 2017. 
- ECE News** “Student teams earn prizes in EECS 556: Image Processing”, Michigan EECS, April 29, 2011. 