

Richard Zhang

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Last updated [Jul 2025]

SUMMARY

Researching controllability, inference speed/compression, and data transparency for generative modeling (GenAI). Broader interests in computer vision, machine learning, and graphics, with contributions in self-supervised learning, perceptual metrics, and image forensics. Recognized as an Innovator Under 35 by MIT Tech Review in 2023.

EMPLOYMENT HISTORY

Adobe Research

Senior Research Scientist II, San Francisco, CA

Jan 2024 – Present

Senior Research Scientist

Jan 2022 – Dec 2023

Research Scientist II

Jan 2020 – Dec 2021

Research Scientist

May 2018 – Dec 2019

Research Intern, Seattle, WA

May – Aug 2017

Johns Hopkins University Applied Physics Laboratory (JHU/APL), Laurel, MD Jul 2010 – Jul 2012

- Missile Defense Radar Engineering Group, Air & Missile Defense Dept (AMDD), *Staff Engineer*
- Electro-Optical & Infrared Systems and Technologies Group, AMDD

EDUCATION

University of California, Berkeley, Berkeley, CA

- Ph.D. in Electrical Engineering and Computer Sciences (EECS) Aug 2012 – May 2018
 - Thesis: Image Synthesis for Self-Supervised Visual Representation Learning
 - Advisor: Prof. Alexei A. Efros

Cornell University, Ithaca, NY

- M.Eng. in Electrical & Computer Engineering (ECE) Aug 2009 – May 2010
 - Cumulative GPA: 4.13 / 4.30
- B.S. in Electrical & Computer Engineering (ECE) Aug 2006 – Dec 2009
 - Cumulative GPA: 4.02 / 4.30, Summa Cum Laude, Dean's List all semesters

PUBLICATIONS

CONFERENCE

- [57] R. Gandikota, Z. Wu, R. Zhang, D. Bau, E. Shechtman, N. Kolkin. **SliderSpace: Decomposing the Visual Capabilities of Diffusion Models**. In *ICCV*, 2025.
- [56] R. Po, Y. Nitzan, R. Zhang, B. Chen, T. Dao, E. Shechtman, G. Wetzstein, X. Huang. **Long-Context State-Space Video World Models**. In *ICCV*, 2025.
- [55] T. Yin, Q. Zhang, R. Zhang, W.T. Freeman, F. Durand, E. Shechtman, X. Huang. **From slow bidirectional to fast causal video generators**. In *CVPR*, 2025.
- [54] Y. Xu, T. Park, R. Zhang, Y. Zhou, E. Shechtman, F. Liu, J.B. Huang, D. Liu. In *CVPR*, 2025.
- VideoGigaGAN: Towards Detail-rich Video Super-Resolution**. In *CVPR*, 2025.
- [53] S.Y. Wang, A. Hertzmann, A.A. Efros, J.Y. Zhu, R. Zhang. **Data Attribution for Text-to-Image Models by Unlearning Synthesized Images**. In *NeurIPS*, 2024.
- [52] T. Yin, M. Gharbi, T. Park, R. Zhang, E. Shechtman, F. Durand, W. T. Freeman. **Improved Distribution Matching Distillation for Fast Image Synthesis**. In *NeurIPS* (oral), 2024.
- [51] J. Materzynska, J. Sivic, E. Shechtman, A. Torralba, R. Zhang, B. Russell. **Customizing Motion in Text-to-Video Diffusion Models**. In *ACCV*, 2024.
- [50] N. Kumari, G. Su, R. Zhang, T. Park, J.Y. Zhu. **Customizing Text-to-Image Diffusion with Camera Viewpoint Control**. In *SIGGRAPH Asia*, 2024.
- [49] Z. Wu, N. Kolkin, J. Brandt, R. Zhang, E. Shechtman. **TurboEdit: Real-time text-based disentangled real image editing**. In *ECCV*, 2024.
- [48] M. Kang, R. Zhang, C. Barnes, S. Paris, S. Kwak, J. Park, E. Shechtman, J.Y. Zhu, T. Park. **Diffusion2GAN: Distilling Diffusion Models into Conditional GANs**. In *ECCV*, 2024.
- [47] J. Mu, M. Gharbi, R. Zhang, E. Shechtman, N. Vasconcelos, X. Wang, T. Park. **Editable Image Elements for Controllable Synthesis**. In *ECCV*, 2024.
- [46] Y. Nitzan, Z. Wu, R. Zhang, E. Shechtman, D. Cohen-Or, T. Park, M. Gharbi. **Lazy Diffusion Transformer for Interactive Image Editing**. In *ECCV*, 2024.

- [45] A. Ganjdanesh, Y. Kang, Y. Liu, R. Zhang, Z. Lin, H. Huang. **Mixture of Efficient Diffusion Experts Through Automatic Interval and Sub-Network Selection.** In *ECCV*, 2024.
- [44] T. Yin, M. Gharbi, R. Zhang, E. Shechtman, F. Durand, W. Freeman, T. Park. **One-step Diffusion with Distribution Matching Distillation.** In *CVPR*, 2024.
- [43] Y. Chen, O. Wang, R. Zhang, E. Shechtman, X. Wang, M. Gharbi. **Image Neural Field Diffusion Models.** In *CVPR* (highlight), 2024.
- [42] C. Ham, M. Fisher, J. Hays, N. Kolkin, Y. Lu, R. Zhang, T. Hinz. **Personalized Residuals for Concept-Driven Text-to-Image Generation.** In *CVPR*, 2024.
- [41] S. Fu*, N. Tamir*, S. Sundaram*, L. Chai, R. Zhang, T. Dekel, P. Isola. **DreamSim: Learning New Dimensions of Human Visual Similarity using Synthetic Data.** In *NeurIPS* (spotlight), 2023.
- [40] S.Y. Wang, A.A. Efros, J.Y. Zhu, R. Zhang. **Evaluating Data Attribution for Text-to-Image Models.** In *ICCV*, 2023.
- [39] N. Kumari, B. Zhang, S.Y. Wang, E. Shechtman, R. Zhang, J.Y. Zhu. **Ablating concepts in text-to-image diffusion models.** In *ICCV*, 2023.
- [38] G. Parmar, K. K. Singh, R. Zhang, Y. Li, J. Lu, J.Y. Zhu. **Zero-shot Image-to-Image Translation.** In *SIGGRAPH*, 2023.
- [37] N. Kumari, B. Zhang, R. Zhang, E. Shechtman, J.Y. Zhu. **Multi-Concept Customization of Text-to-Image Diffusion.** In *CVPR*, 2023.
- [36] M. Kang, J.Y. Zhu, R. Zhang, J. Park, E. Shechtman, S. Paris, T. Park. **Scaling up GANs for Text-to-Image Synthesis.** In *CVPR* (highlight), 2023.
- [35] Y. Nitzan, M. Gharbi, R. Zhang, T. Park, J.Y. Zhu, D. Cohen-Or, E. Shechtman. **Domain Expansion of Image Generators.** In *CVPR*, 2023.
- [34] M. Huh, H. Mohabi, R. Zhang, B. Cheung, P. Agrawal, P. Isola. **The Low-Rank Simplicity Bias in Deep Networks.** In *TMLR*, 2023.
- [33] L. Chai, M. Gharbi, E. Shechtman, P. Isola, R. Zhang. **Any-resolution Training for High-resolution Image Synthesis.** In *ECCV*, 2022.
- [32] D. Epstein, T. Park, R. Zhang, E. Shechtman, A. A. Efros. **BlobGAN: Spatially Compositional Scene Representations.** In *ECCV*, 2022.
- [31] Y. Liu, Z. Shu, Y. Li, Z. Lin, R. Zhang, S.Y. Kung. **3D-FM GAN: Towards 3D-Controllable Face Manipulation.** In *ECCV*, 2022.
- [30] D. Liu, S. Shetty, T. Hinz, M. Fisher, R. Zhang, T. Park, E. Kalogerakis. **ASSET: Autoregressive Semantic Scene Editing with Transformers at High Resolutions.** In *SIGGRAPH*, 2022.
- [29] W. Peebles, J.Y. Zhu, R. Zhang, A. A. Efros, A. Torralba, E. Shechtman. **GAN-Supervised Dense Visual Alignment** In *CVPR*, 2022 (oral, best paper finalist).
- [28] N. Kumari, R. Zhang, E. Shechtman, J.Y. Zhu. **Ensembling Off-the-shelf Models for GAN Training.** In *CVPR*, 2022 (oral).
- [27] G. Parmar, R. Zhang, J.Y. Zhu. **On Aliased Resizing Libraries and Surprising Subtleties in FID Calculation.** In *CVPR*, 2022.
- [26] G. Parmar, Y. Li, J. Lu, R. Zhang, J.Y. Zhu, K. Singh. **Multilayer GAN Inversion and Editing.** In *CVPR*, 2022.
- [25] S. Liu, X. Zhang, Z. Zhang, R. Zhang, J.Y. Zhu, B. Russell. **Editing Conditional Radiance Fields.** In *ICCV*, 2021.
- [24] R. Alghofaili, M. Fisher, R. Zhang, M. Lukáč, L.F. Yu. **Exploring Sketch-based Character Design Guided by Automatic Colorization.** In *Graphics Interfaces*, 2021.
- [23] L. Chai, J.Y. Zhu, E. Shechtman, P. Isola, R. Zhang. **Ensembling with Deep Generative Views.** In *CVPR*, 2021.
- [22] U. Ojha, Y. Li, J. Lu, A. A. Efros, Y.J. Lee, E. Shechtman, R. Zhang. **Few-shot Image Generation via Cross-domain Correspondence.** In *CVPR*, 2021.
- [21] J. Lin, R. Zhang, F. Ganz, S. Han, J.Y. Zhu. **Anycost GANs for Interactive Image Synthesis and Editing.** In *CVPR*, 2021.
- [20] T. R. Shaham, M. Gharbi, R. Zhang, E. Shechtman, T. Michaeli. **Spatially-Adaptive Pixelwise Networks for Fast Image Translation.** In *CVPR*, 2021.
- [19] P. Manocha, Z. Jin, R. Zhang, A. Finkelstein. **CDPAM: Contrastive learning for perceptual audio similarity.** In *ICASSP*, 2021.
- [18] Y. Li, R. Zhang, J. Lu, E. Shechtman. **Few-shot Image Generation with Elastic Weight Consolidation.** In *NeurIPS*, 2020.

- [17] T. Park, J.Y. Zhu, O. Wang, J. Lu, E. Shechtman, A. A. Efros, R. Zhang. **Swapping Autoencoder for Deep Image Manipulation**. In *NeurIPS*, 2020.
- [16] T. Park, A. A. Efros, R. Zhang, J.Y. Zhu. **Contrastive Learning for Unsupervised Image-to-Image Translation**. In *ECCV*, 2020.
- [15] M. Huh, R. Zhang, J.Y. Zhu, S. Paris, A. Hertzmann. **Transforming and Projecting Images into Class-conditional Generative Networks**. In *ECCV*, 2020 (oral).
- [14] P. Manocha, A. Finkelstein, R. Zhang, N. J. Bryan, G. J. Mysore, Z. Jin. **A Differentiable Perceptual Audio Metric Learned from Just Noticeable Differences**. In *Interspeech*, 2020.
- [13] S. Wang, O. Wang, R. Zhang, A. Owens, A. A. Efros. **CNN-generated images are surprisingly easy to spot...for now**. In *CVPR*, 2020 (oral).
- [12] D. Smirnov, M. Fisher, V. Kim, R. Zhang, J. Solomon. **Deep Parametric Shape Predictions using Distance Fields**. In *CVPR*, 2020.
- [11] N. Fish, R. Zhang, L. Perry, D. Cohen-Or, E. Shechtman, C. Barnes. **Image Morphing with Perceptual Constraints and STN Alignment**. In *CGF*, 2020.
- [10] S. Wang, O. Wang, A. Owens, R. Zhang, A. A. Efros. **Detecting Photoshopped Faces by Scripting Photoshop**. In *ICCV*, 2019.
- [9] A. Ghosh, R. Zhang, P. K. Dokania, O. Wang, A. A. Efros, P. H.S. Torr, E. Shechtman. **Interactive Sketch & Fill: Multiclass Sketch-to-Image Translation**. In *ICCV*, 2019.
- [8] R. Zhang. **Making Convolutional Networks Shift-Invariant Again**. In *ICML*, 2019.
- [7] R. Zhang, P. Isola, A. A. Efros, E. Shechtman, O. Wang. **The Unreasonable Effectiveness of Deep Features as a Perceptual Metric**. In *CVPR*, 2018.
- [6] J.Y. Zhu, R. Zhang, D. Pathak, T. Darrell, A. A. Efros, O. Wang, E. Shechtman. **Toward Multimodal Image-to-Image Translation**. In *NIPS*, 2017.
- [5] R. Zhang*, J.Y. Zhu*, P. Isola, X. Geng, A. S. Lin, T. Yu, A. A. Efros. **Real-Time User-Guided Image Colorization with Learned Deep Priors**. In *SIGGRAPH*, 2017. (*equal contribution)
- [4] R. Zhang, P. Isola, A. A. Efros. **Split-Brain Autoencoders: Unsupervised Learning by Cross-Channel Prediction**. In *CVPR*, 2017.
- [3] R. Zhang, P. Isola, A. A. Efros. **Colorful Image Colorization**. In *ECCV*, 2016 (oral).
- [2] R. Zhang, S. Candra, K. Vetter, A. Zakhor. **Sensor Fusion for Semantic Segmentation for Urban Scenes**. In *ICRA*, 2015.
- [1] R. Zhang and A. Zakhor. **Automatic Identification of Window Regions on Indoor Point Clouds Using LiDAR and Cameras**. In *WACV*, 2014.

WORKSHOP/PREPRINTS

- [v] N.Y. Tamir, S. Amir, R. Itzhaky, N. Atia, S. Sundaram, S. Fu, R. Sokolovsky, P. Isola, T. Dekel, R. Zhang, M. Farber. **What Makes for a Good Stereoscopic Image?** In *CVPR CV4Metaverse Workshop*, 2025.
- [iv] X. Wang, T. Park, Y. Zhou, E. Shechtman, R. Zhang. **Jump Cut Smoothing for Talking Heads**. In *ArXiv*, 2024.
- [iii] D. Epstein, I. Jain, O. Wang, R. Zhang. **Online Detection of AI-Generated Images**. In *ICCV DFAD Workshop*, 2023.
- [ii] A. Andonian, T. Park, B. Russell, P. Isola, J.Y. Zhu, R. Zhang. **Contrastive Feature Loss for Image Prediction**. In *ICCV AIM Workshop*, 2021.
- [i] A.X. Lee, R. Zhang, F. Ebert, P. Abbeel, C. Finn, S. Levine. **Stochastic Adversarial Video Prediction**. In *ArXiv*, 2018.

TECH TRANSFERS **Adobe Firefly**

- Custom models, extended from Custom Diffusion [CVPR '23] Apr 2024
- Consulted on pruning for improved inference speed Nov 2023
- Consulted on upsampling Feb 2023
- GenAI Detection**, Adobe Stock Jan 2023
 - Based on CNN and Diffusion detection [CVPR '20; ICCV Wksp '23]
- Landscape Mixer**, Photoshop Neural Filters Oct 2021
 - Based on Swapping Autoencoder [NeurIPS '19] paper
- Smart Portrait**, Photoshop Neural Filters Oct 2021
 - Consultation; developed and ran A/B testing procedure

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|---------------------------|---|--------------------|
| | Enhance Super Resolution , Lightroom | Mar 2021 |
| | ▪ Consultation on feature, received recognition as one of Best Inventions of 2021 from Time | |
| | Colorize Photo , Photoshop Neural Filters, Photoshop Elements | Oct 2020, Oct 2019 |
| | ▪ Based on Colorization papers [ECCV '16; SIGGRAPH '17] | |
| AWARDS | 35 Innovators Under 35 , MIT Technology Review | Sep 2023 |
| | Best Paper Finalist , CVPR 2022 | Jul 2022 |
| | Paper Reviewing Recognitions | |
| | ▪ ECCV, top reviewer | Oct 2022 |
| | ▪ NeurIPS, top 10% reviewer | Dec 2020 |
| | ▪ ECCV, top reviewer | Oct 2020 |
| | ▪ NeurIPS, top 50% reviewer | Dec 2019 |
| | ▪ CVPR, outstanding reviewer | Jul 2019 |
| | Best Presentation Award , SIGGRAPH Thesis Fast Forward | Jul 2018 |
| | Adobe Research Fellowship | Jan 2017 |
| | William S. Einwechter Award , Cornell University | May 2010 |
| COMMUNITY SERVICE | AREA CHAIR | |
| | European Conference on Computer Vision (ECCV) | 2024 |
| | Computer Vision and Pattern Recognition (CVPR) | 2020-21, 2023-24 |
| | International Conference on Learning Representations (ICLR) | 2023 |
| | British Machine Vision Conference (BMVC) | 2022 |
| | PAPERS REVIEWED | |
| | Computer Vision and Pattern Recognition (CVPR) | 2018-19, 2022 |
| | European Conference on Computer Vision (ECCV) | 2018-22 |
| | International Conference on Computer Vision (ICCV) | 2017-19, 2023 |
| | Neural Information Processing Systems (NIPS, NeurIPS) | 2016-21 |
| | International Conference in Machine Learning (ICML) | 2019-20 |
| | Special Interest Group in Graphics (SIGGRAPH) | 2017-19, 20-23 |
| | Special Interest Group in Graphics, Asia (SIGGRAPH Asia) | 2017-19, 2021 |
| | International Conference on Robotics and Automation (ICRA) | 2015, 2018 |
| | International Journal of Computer Vision (IJCV) | 2019, 2021 |
| | Transactions in Pattern Analysis and Machine Intelligence (TPAMI) | 2018 |
| | Transactions in Image Processing (TIP) | 2017-18 |
| | Technical Committee on Vision and Graphics (TCVG) | 2018 |
| | Pacific Graphics | 2018 |
| | Eurographics | 2019 |
| | WORKSHOP ORGANIZATION COMMITTEE | |
| | Sketching for Human Expressivity (SHE), at ECCV 2022 | Oct 2022 |
| | Advancements in Image Manipulation (AIM), at ICCV 2019 | Nov 2019 |
| | New Trends in Image Restoration and Enhancement (NTIRE), at CVPR 2019 | Jul 2019 |
| SELECTED PUBLICITY | TWiML (This Week in ML) Podcast. <i>Visual Generative AI Ecosystem Challenges</i> . | Dec 2023 |
| | Adobe Blog. <i>MIT Technology Review names Adobe Research's Richard Zhang a top "Innovator Under 35" for groundbreaking generative AI and image forensics work.</i> | Sep 2023 |
| | Time. <i>The Best Inventions of 2021: Adobe Super Resolution.</i> | Nov 2021 |
| | Adobe Research Blog. <i>Advancing the Science of Image Forensics.</i> | Jan 2020 |
| | Adobe MAX (Sneak Peek). <i>Project About Face.</i> | Nov 2019 |
| | The Verge. <i>Adobe's prototype AI tool automatically spots Photoshopped faces.</i> | Jun 2019 |
| | The New Yorker. <i>In the Age of A.I., Is Seeing Still Believing?</i> | Nov 2018 |
| | Adobe Research Blog. <i>With Deep Learning, Computers See Images More Like Humans Do.</i> | May 2018 |
| | UK Times. <i>Computers give the past a blast of colour.</i> | Apr 2016 |
| | TechCrunch. <i>This neural network 'hallucinates' the right colors into black and white pictures.</i> | Mar 2016 |

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| INVITED PRESENTATIONS | <i>Data Attribution for Text-to-Image Models</i> | Jul 2024 |
| | MIT Computer Vision Seminar | |
| | <i>Incentivizing Opt-in and Enabling Opt-out for Text-to-Image Models</i> | |
| | CVPR GenAI Media Gen. Challenge (GAMC), Trusted Computer Vision (TCV) workshops | Jun 2024 |
| | NeurIPS ML for Creativity & Design Workshop | Dec 2023 |
| | <i>Perception, Generation, & Forensics</i> | |
| | Video Quality Experts Group (VQEG) Panel | Jun 2023 |
| | <i>Colourisation and Any-resolution Generation</i> | |
| | CeADAR Tech Talk | Jan 2023 |
| | <i>Anycost and Any-resolution Image Synthesis</i> | |
| | CVPR New Trends in Image Restoration (NTIRE), AI for Content Creation (AICC) workshops | Jun 2022 |
| | Netflix Seminar | Aug 2022 |
| | <i>The Unreasonable Effectiveness of Deep Features as a Perceptual Metric</i> | |
| | JPEG Workshop on Subjective Quality Assessment | Jun 2022 |
| | <i>Swapping Autoencoder for Deep Image Manipulation</i> | |
| | Rework Deep Learning Summit, Generative Models Stage | Jan 2021 |
| | <i>Deep Learning for Computer Vision and Graphics</i> | |
| | Illinois Mathematics and Science Academy, Intersession | Jan 2021 |
| | <i>Detecting Generated Imagery, Deep and Shallow</i> | |
| | Learning-Based Image Synthesis, CMU | May 2021 |
| | ECCV Sensing, Understanding and Synthesizing Workshop | Aug 2020 |
| | <i>Style and Structure Disentanglement for Image Manipulation</i> | |
| | ECCV Advances in Image Manipulation (AIM) Workshop | Aug 2020 |
| | <i>Analyzing CNN Artifacts in Discriminative and Generative Models</i> | |
| | Machine Learning @ Berkeley invited seminar talk | Sep 2020 |
| | Graphics and Mixed Environment (GAMES) Webinar | Aug 2020 |
| | CVPR Area Chair Workshop | Mar 2020 |
| | <i>Making Convolutional Networks Shift-Invariant Again</i> | |
| | Simon Fraser University, CMPT 361 Intro to Vision, Invited Lecture | Sep 2020 |
| | Berkeley AI Research (BAIR) Seminar | Aug 2019 |
| | International Conference on Machine Learning (ICML) | Jun 2019 |
| | Google Research, Cambridge, MA | May 2019 |
| | <i>Modeling Perceptual Similarity and Shift-Invariance in Deep Networks</i> | |
| | NAVER Labs, Tech talk | Oct 2019 |
| | University College London, Smart Geometry Processing Group seminar | Oct 2019 |
| | Oxford University, VGG seminar | Oct 2019 |
| | Scale.AI, seminar talk | Aug 2019 |
| | Toyota Technological Institute of Chicago (TTIC), Young Researcher Talk | May 2019 |
| | Massachusetts Institute of Technology (MIT), Computer Vision Seminar | Apr 2019 |
| | <i>Deep Learning for Content Synthesis</i> | |
| | Association for Content Editors (ACE) Tech Day with Adobe | Sep 2019 |
| | Hollywood Professional Association (HPA) Tech Retreat | Feb 2019 |
| | <i>Image Synthesis for Self-Supervised Visual Representation Learning</i> | |
| | Stanford University, Graphics Group; University of Michigan, Computer Vision Group | Jan 2019 |
| | Berkeley Special Topics in Deep Learning Seminar, CS 294-131 | Nov 2018 |
| | SIGGRAPH 2018 Thesis Fast Forward (3 min) | Jul 2018 |
| | Berkeley AI Research (BAIR) Seminar, Dissertation Talk | Apr 2018 |
| | Alibaba Research; Amazon AI Deep Learning; DeepScale; Facebook AML; Fyusion; | Mar 2018 |
| | Google Research; Intel Intelligent Systems; NVIDIA Research | |

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| | Adobe Research; Allen Institute for AI (AI2); Amazon A9; Apple Turi; eBay Research; Snap Research; WaveOne | Feb 2018 |
| | Multimodal Image-to-Image Translation University of Washington, Graphics and Imaging Lab (GRAIL) | Jul 2018 |
| | Real-Time User-Guided Image Colorization with Learned Deep Priors Special Interest Group on Computer Graphics and Interactive Techniques (SIGGRAPH) NVIDIA SIGGRAPH Innovation Theater | Aug 2017 Aug 2017 |
| | Cross-Channel Visual Prediction Graphics and Mixed Environment (GAMES) Webinar Global AI Hackathon Webinar Berkeley AI Research (BAIR) Seminar | Oct 2017 Jun 2017 Apr 2017 |
| | Colorful Image Colorization Berkeley AI Research (BAIR) Seminar European Conference on Computer Vision (ECCV) Oxford University; INRIA Paris; INRIA Sophia Antipolis; École des Ponts ParisTech | Sep 2017 Oct 2016 Jun 2016 |
| | Sensor Fusion for Semantic Segmentation for Urban Scenes Berkeley Deep Drive (BDD) Kickoff Amazon Computer Vision PhD Symposium International Conference on Robotics and Automation (ICRA) | Mar 2016 Oct 2015 Mar 2015 |
| | Automatic Identification of Window Regions on Indoor Point Clouds Using LiDAR and Cameras Winter Conference on Applications of Computer Vision (WACV) Microsoft Research (MSR) Computer Vision Group | May 2014 Jan 2014 |
| TEACHING EXPERIENCE | Berkeley EECS Department <ul style="list-style-type: none"> CS 188 Intro to Artificial Intelligence, <i>Graduate Student Instructor</i> • Instructor: Prof. Anca Dragan CS 280 Computer Vision, <i>Graduate Student Instructor</i> • Instructor: Prof. Alexei A. Efros Cornell ECE Department <ul style="list-style-type: none"> ECE 2100 Intro to Circuits, <i>Teaching Assistant</i> • Instructor: Prof. Alyosha Molnar ECE 2100 Intro to Circuits, <i>Course Assistant</i> • Instructor: Prof. John Belina | Jan – May 2017 Jan – May 2016 Jan – May 2010 Aug – Dec 2008 |
| VOLUNTEER EXPERIENCE | Illinois Math and Science Academy (IMSA), Intersession Instructor Berkeley AI Research (BAIR) Mentorship Program, Mentor Clarksville Middle School, Howard County Public School System, Volunteer | Jan 2014, Jan 2021 Aug – Dec 2017 Dec 2010 – May 2011 |
| LANGUAGES | Chinese (Mandarin) – Conversational | |