

David B. Lindell

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Current Appointments

Assistant Professor

Dept. of Computer Science, University of Toronto

2022–present

Faculty Affiliate

Vector Institute

2022–present

Education

Stanford University

Ph.D. Electrical Engineering

Committee: Gordon Wetzstein, Bernd Girod, Mark Horowitz, Vivek Goyal, James Harris

Stanford, CA

2016–2021

Brigham Young University

M.Sc. Electrical Engineering

Advisor: David G. Long

Provo, UT

2015–2016

Brigham Young University

B.Sc. Electrical Engineering

Advisors: David G. Long, Aaron Hawkins

Provo, UT

2009–2015

Awards

Google Research Scholar Award

2024

Sony Focused Research Award

2023

Sony Faculty Innovation Award

2023

Marr Prize

2023

Connaught New Researcher Award

2023

ACM SIGGRAPH Outstanding Doctoral Dissertation Honorable Mention

2021

ACM SIGGRAPH Thesis Fast Forward Honorable Mention

2020

CVPR Outstanding Reviewer

2020

Stanford Graduate Research Fellowship

2016–2020

BYU Office of Research & Creative Activities Grant

2015

Tau Beta Pi Scholarship

2014

BYU Heritage Scholarship

2012–2015

Previous Professional Experience

Stanford University

Postdoctoral Scholar

Advisor: Gordon Wetzstein

Stanford, CA

2021–2022

Intelligent Systems Lab, Intel Corporation

Intern

Advisor: Vladlen Koltun

Santa Clara, CA

2018

Rincon Research Corporation

Intern

Tucson, AZ

2016

Conference Organization/Editorial Positions

Associate Editor: IEEE Transactions on Computational Imaging	2023–2024
Area Chair: Neural Information Processing Systems (NeurIPS)	2023, 2024
Area Chair: IEEE Conference on Computer Vision and Pattern Recognition (CVPR)	2023, 2024
Finance Co-Chair: Int. Conference on Computational Photography (ICCP)	2022
Program Chair: Int. Conference on Computational Photography (ICCP)	2025
Program Chair: IEEE Workshop on Computational Cameras and Displays (CCD)	2020,2021,2023
Program Committee: Int. Conference on Computational Photography (ICCP)	2019–2024
Technical Papers Committee: SIGGRAPH Asia	2023

Referee Service

CVPR	2020–
ECCV	2020–
ICCV	2021–
ICCP	2019–
ICLR	2021–
NeurIPS	2021–
SIGGRAPH	2020–
SIGGRAPH Asia	2022–
WACV	2024–
Nature	
Nature Communications	
Nature Photonics	
Optica	
Optics Express	
Science Advances	
IEEE Transactions on Computational Imaging	
IEEE Transactions on Pattern Analysis and Machine Intelligence	

University Service

AI Curriculum Committee: Computer Science Department, University of Toronto	2023–2024
Undergraduate Affairs Committee: Computer Science Department, University of Toronto	2022–2024
Outreach Committee: Computer Science Department, University of Toronto	2023–2024

Teaching

University of Toronto <i>CSC2529: Computational Imaging</i>	Instructor 2022,2023
University of Toronto <i>CSC420: Introduction to Image Understanding</i>	Instructor 2023,2024
AAAI Conference on Artificial Intelligence <i>AI for Emerging Inverse Problems in Computational Imaging</i>	Instructor 2024
University of Toronto <i>CSC2529: Computational Imaging</i>	Instructor 2022
Stanford University <i>EE367/CS448i: Computational Imaging</i>	Instructor 2022

Journal Publications

- [J13] C. Shentu, E. Li, C. Chen, P. T. Dewi, **D. B. Lindell**, J. Burgner-Kahrs, "MoSS: Monocular shape sensing for continuum robots," *IEEE Robotics and Automation Letters*, 2023.
- [J12] J. N. P. Martel, **D. B. Lindell**, C. Z. Lin, E. R. Chan, M. Monteiro, G. Wetzstein, "ACORN: Adaptive coordinate networks for neural scene representation," *ACM Transactions on Graphics (SIGGRAPH)*, vol. 40, no. 4, pp. 1–13, 2021.
- [J11] **D. B. Lindell** and G. Wetzstein, "Three-dimensional imaging through scattering media based on confocal diffuse tomography," *Nature Communications*, vol. 11, no. 4517, 2020.
- [J10] C. A. Metzler, **D. B. Lindell**, G. Wetzstein, "Keyhole imaging: Non-line-of-sight imaging and tracking of moving objects along a single optical path at long standoff distances," *IEEE Transactions on Computational Imaging*, vol. 7, pp. 1–12, 2020.
- [J9] Z. Sun, **D. B. Lindell**, O. Solgaard, G. Wetzstein, "SPADnet: Deep RGB-SPAD sensor fusion assisted by monocular depth estimation," *Optics Express*, vol. 28, no. 10, pp. 14 948–14 962, 2020.
- [J8] F. Heide, M. O'Toole, K. Zang, **D. B. Lindell**, S. Diamond, G. Wetzstein, "Non-line-of-sight imaging with partial occluders and surface normals," *ACM Transactions on Graphics (ToG)*, vol. 38, no. 3, 2019.
- [J7] **D. B. Lindell**, G. Wetzstein, M. O'Toole, "Wave-based non-line-of-sight imaging using fast f-k migration," *ACM Transactions on Graphics (SIGGRAPH)*, vol. 38, no. 4, 2019.
- [J6] F. Heide, S. Diamond, **D. B. Lindell**, G. Wetzstein, "Sub-picosecond photon-efficient 3D imaging using single-photon sensors," *Scientific Reports*, vol. 8, no. 17726, 2018.
- [J5] **D. B. Lindell**, M. O'Toole, G. Wetzstein, "Single-photon 3D imaging with deep sensor fusion," *ACM Transactions on Graphics (SIGGRAPH)*, vol. 37, no. 4, 2018.
- [J4] M. O'Toole, **D. B. Lindell**, G. Wetzstein, "Confocal non-line-of-sight imaging based on the light-cone transform," *Nature*, vol. 555, no. 7696, pp. 338–341, 2018.
- [J3] **D. B. Lindell** and D. G. Long, "High-resolution soil moisture retrieval with ASCAT," *IEEE Geoscience and Remote Sensing Letters*, vol. 13, no. 7, pp. 972–976, 2016.
- [J2] **D. B. Lindell** and D. G. Long, "Multiyear Arctic ice classification using ASCAT and SSMIS," *Remote Sensing*, vol. 8, no. 4, p. 294, 2016.
- [J1] **D. B. Lindell** and D. G. Long, "Multiyear Arctic sea ice classification using OSCAT and QuikSCAT," *IEEE Transactions on Geoscience and Remote Sensing*, vol. 54, no. 1, pp. 167–175, 2016.

Conference Publications

- [C27] S. Bahmani, X. Liu, Y. Wang, I. Skorokhodov, V. Rong, Z. Liu, X. Liu, J. J. Park, S. Tulyakov, G. Wetzstein, A. Tagliasacchi, **D. B. Lindell**, "TC4D: Trajectory-conditioned text-to-4D generation," in *European Conference on Computer Vision (ECCV)*, 2024.
- [C26] S. Bahmani, I. Skorokhodov, V. Rong, G. Wetzstein, L. Guibas, P. Wonka, S. Tulyakov, J. J. Park, A. Tagliasacchi, **D. B. Lindell**, "4D-fy: Text-to-4D generation using hybrid score distillation sampling," in *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2024.
- [C25] A. Malik, N. Juravsky, R. Po, G. Wetzstein, K. N. Kutulakos, **D. B. Lindell**, "Flying with photons: Rendering novel views of propagating light," in *European Conference on Computer Vision (ECCV)*, 2024, (Oral).
- [C24] P. Mirdehghan, B. Buscaino, M. Wu, D. Charlton, M. E. Mousa-Pasandi, K. N. Kutulakos, **D. B. Lindell**, "Coherent optical modems for full-wavefield lidar," in *ACM SIGGRAPH Asia*, 2024.
- [C23] P. Mirdehghan, M. Wu, W. Chen, **D. B. Lindell**, K. N. Kutulakos, "TurboSL: Dense, accurate and fast 3D by neural inverse structured light," in *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2024.

- [C22] R. Rangel, X. Sun, A. Barman, R. Gulve, S. Bajic, J. Wang, H. Wang, **D. B. Lindell**, K. N. Kutulakos, R. Genov, "23,000-exposures/s 360fps-readout software-defined image sensor with motion-adaptive spatially varying imaging speed," in *IEEE Symposium on VLSI Technology and Circuits*, 2024.
- [C21] K. Yin, V. Rao, R. Jiang, X. Liu, P. Aarabi, **D. B. Lindell**, "SCE-MAE: Selective correspondence enhancement with masked autoencoder for self-supervised landmark estimation," in *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2024.
- [C20] R. Gulve, R. Rangel, A. Barman, D. Nguyen, M. Wei, M. A. Sakr, X. Sun, **D. B. Lindell**, K. N. Kutulakos, R. Genov, "Dual-port CMOS image sensor with regression-based HDR flux-to-digital conversion and 80 ns rapid-update pixel-wise exposure coding," in *IEEE International Solid-State Circuits Conference (ISSCC)*, 2023.
- [C19] A. Malik, P. Mirdehghan, S. Nousias, K. N. Kutulakos, **D. B. Lindell**, "Transient neural radiance fields for lidar view synthesis and 3d reconstruction," in *Advances in Neural Information Processing Systems (NeurIPS)*, 2023, (**Spotlight**).
- [C18] S. Sinha, J. Y. Zhang, A. Tagliasacchi, I. Gilitschenski, **D. B. Lindell**, "SparsePose: Sparse-view camera pose regression and refinement," in *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2023.
- [C17] M. Wei, S. Nousias, R. Gulve, **D. B. Lindell**, K. N. Kutulakos, "Passive ultra-wideband single-photon imaging," in *IEEE/CVF International Conference on Computer Vision (ICCV)*, 2023, (**Marr Prize**).
- [C16] A. W. Bergman, P. Kellnhofer, Y. Wang, E. R. Chan, **D. B. Lindell**, G. Wetzstein, "Generative neural articulated radiance fields," in *Advances in Neural Information Processing Systems (NeurIPS)*, 2022.
- [C15] C. Z. Lin, **D. B. Lindell**, E. R. Chan, G. Wetzstein, "3D GAN inversion for controllable portrait image animation," in *ECCV 2022 Workshop on Learning to Generate 3D Shapes and Scenes*, 2022.
- [C14] **D. B. Lindell**, D. Van Veen, J. J. Park, G. Wetzstein, "BACON: Band-limited coordinate networks for neural scene representation," in *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2022, (**Oral**).
- [C13] S. Shekarfroush, **D. B. Lindell**, D. J. Fleet, M. A. Brubaker, "Residual multiplicative filter networks for multiscale reconstruction," in *Advances in Neural Information Processing Systems (NeurIPS)*, 2022.
- [C12] D. Van Veen, R. Van der Sluijs, B. Ozturkler, A. D. Desai, C. Bluethgen, R. D. Boutin, M. H. Willis, G. Wetzstein, **D. B. Lindell**, S. Vasanawala, J. Pauly, A. S. Chaudhari, "Scale-agnostic super-resolution in MRI using feature-based coordinate networks," in *Medical Imaging with Deep Learning*, 2022.
- [C11] Q. Zhao, **D. B. Lindell**, G. Wetzstein, "Learning to solve PDE-constrained inverse problems with graph networks," in *International Conference on Machine Learning (ICML)*, 2022.
- [C10] **D. B. Lindell**, J. N. P. Martel, G. Wetzstein, "AutoInt: Automatic integration for fast neural volume rendering," in *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2021.
- [C9] A. W. Bergman, **D. B. Lindell**, G. Wetzstein, "Deep adaptive LiDAR: End-to-end optimization of sampling and depth completion at low sampling rates," in *IEEE International Conference on Computational Photography (ICCP)*, 2020.
- [C8] **D. B. Lindell**, M. O'Toole, G. Wetzstein, "Efficient non-line-of-sight imaging with computational single-photon imaging," in *Advanced Photon Counting Techniques XIV*, SPIE, 2020.
- [C7] **D. B. Lindell** and G. Wetzstein, "Confocal diffuse tomography for single-photon 3D imaging through highly scattering media," in *Computational Optical Sensing and Imaging (COSI)*, OSA, 2020.
- [C6] M. Nishimura, **D. B. Lindell**, C. A. Metzler, G. Wetzstein, "Disambiguating monocular depth estimation with a single transient," in *European Conference on Computer Vision (ECCV)*, 2020.
- [C5] V. Sitzmann, J. N. P. Martel, A. W. Bergman, **D. B. Lindell**, G. Wetzstein, "Implicit neural representations with periodic activation functions," in *Advances in Neural Information Processing Systems (NeurIPS)*, 2020, (**Oral**).
- [C4] S. I. Young, **D. B. Lindell**, B. Girod, D. Taubman, G. Wetzstein, "Non-line-of-sight surface reconstruction using the directional light-cone transform," in *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2020, (**Oral**).

- [C3] **D. B. Lindell**, G. Wetzstein, V. Koltun, “Acoustic non-line-of-sight imaging,” in *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2019, (**Oral**).
- [C2] **D. B. Lindell**, M. O’Toole, G. Wetzstein, “Towards transient imaging at interactive rates with single-photon detectors,” in *IEEE International Conference on Computational Photography (ICCP)*, 2018.
- [C1] M. O’Toole, F. Heide, **D. B. Lindell**, K. Zang, S. Diamond, G. Wetzstein, “Reconstructing transient images from single-photon sensors,” in *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2017, (**Spotlight**).

Non-Refereed Publications

- [P3] S. Bahmani, I. Skorokhodov, A. Siarohin, W. Menapace, G. Qian, M. Vasilkovsky, H.-Y. Lee, C. Wang, J. Zou, A. Tagliasacchi, **D. B. Lindell**, S. Tulyakov, “Vd3d: Taming large video diffusion transformers for 3d camera control,” *arXiv preprint arXiv:2407.12781*, 2024.
- [P2] S. Shekarforoush, **D. B. Lindell**, M. A. Brubaker, D. J. Fleet, “Improving ab-initio cryo-em reconstruction with semi-amortized pose inference,” *arXiv preprint arXiv:2406.10455*, 2024.
- [P1] E. Y. Lin, Z. Wang, R. Lin, D. Miao, F. Kainz, J. Chen, X. C. Zhang, **D. B. Lindell**, K. N. Kutulakos, “Learning lens blur fields,” *arXiv preprint arXiv:2310.11535*, 2023.

Public Demonstrations

- [D3] R. Gulve, R. Rangel, A. Barman, D. Nguyen, M. Wei, M. A. Sakr, X. Sun, **D. B. Lindell**, K. N. Kutulakos, R. Genov, “Low-cost coded-exposure pixel cameras for robust high-speed computational imaging at up to 18,000 exposures per second,” in *CVPR Demos*, 2023.
- [D2] M. O’Toole, **D. B. Lindell**, G. Wetzstein, “Real-time non-line-of-sight imaging,” in *ACM SIGGRAPH Emerging Technologies*, 2018.
- [D1] M. O’Toole, **D. B. Lindell**, G. Wetzstein, “Real-time non-line-of-sight imaging,” in *CVPR Demos*, 2018.

Theses

2021: Computational Imaging with Single-Photon Detectors. Ph.D. Thesis.

2016: Arctic Sea Ice Classification and Soil Moisture Estimation Using Microwave Sensors. Master’s Thesis.

Invited Talks

2024: Imaging Anytime Anywhere: Capturing Dynamic Scenes from Seconds to Picoseconds, IMSI Workshop on Computational Imaging, Chicago, IL

2024: Imaging Anytime Anywhere All at Once: Capturing Dynamic Scenes from Seconds to Picoseconds, UC Berkeley Photobears, Berkeley, CA

2024: Imaging Anytime Anywhere All at Once: Capturing Dynamic Scenes from Seconds to Picoseconds, Stanford Center for Image Systems Engineering (SCIEN), Stanford, CA

2024: Flying with Photons: Rendering Novel Views of Propagating Light, Conference on Robots and Vision, Guelph, ON

2024: Text-to-4D Generation Using Hybrid Score Distillation Sampling, UTMIST Immersion Night, Toronto, ON

2024: Passive Ultra-Wideband Single-Photon Imaging, Stanford EE367 Computational Imaging (Guest Lecture), Virtual

2024: From Pixels to Perception: Artificial Intelligence and Computer Vision, DGP Academy, Toronto, ON

2024: Passive Ultra-Wideband Single-Photon Imaging, Simon Fraser University (GrUVi Lab), Vancouver, BC

2024: Passive Ultra-Wideband Single-Photon Imaging, National Research Council Ultrafast Quantum Photonics Group, Ottawa, ON

2023: Passive Ultra-Wideband Single-Photon Imaging, 3rd International Computational Imaging Conference, Virtual

2023: From Pixels to Perception: Artificial Intelligence and Computer Vision, Leadership by Design Workshop, Toronto, ON

2023: Neural Rendering at One Trillion Frames per Second, UTMIST EigenAI ML Conference, Toronto, ON

2023: Passive Ultra-Wideband Single-Photon Imaging, Photons Canada, Virtual

2023: Neural Rendering at One Trillion Frames per Second, BIRS Workshop on Generative 3D Models, Banff, AB

2023: Passive Ultra-Wideband Single-Photon Imaging, Photonics North, Montreal, QC

2023: Physics-Based Visual Computing for Efficient 3D Vision and Sensing, University of Windsor, Windsor, ON

2022: Recent Advances in Non-Line-of-Sight Imaging, IEEE Signal Processing Society Webinar, Virtual

2022: Physics-Based Visual Computing for Efficient 3D Vision and Sensing, Purdue Computational Imaging Seminar, Virtual

2022: Confocal Non-Line-of-Sight Imaging and Diffuse Tomography Using Single-Photon Sensors, Imaging and Applied Optics Congress, Vancouver, BC

2022: Physics-Based Visual Computing for Efficient 3D Vision and Sensing, Caltech, Pasadena, CA

2022: Implicit Neural Representation Networks for Fitting Signals, Derivatives, and Integrals, Silicon Valley ACM SIGGRAPH Chapter, Virtual

2021: Implicit Neural Representation Networks for Fitting Signals, Derivatives, and Integrals, Samsung AI Centre, Virtual

2021: Implicit Neural Representation Networks for Fitting Signals, Derivatives, and Integrals, University of Erlangen-Nuremberg, Virtual

2021: Physics-Based Visual Computing for Efficient 3D Vision and Sensing, University of Michigan, Virtual

2021: Physics-Based Visual Computing for Efficient 3D Vision and Sensing, MIT RLE, Virtual

2021: Physics-Based Visual Computing for Efficient 3D Vision and Sensing, University of Chicago, Virtual

2021: Physics-Based Visual Computing for Efficient 3D Vision and Sensing, University of Toronto, Virtual

2021: Physics-Based Visual Computing for Efficient 3D Vision and Sensing, Texas A&M, Virtual

2021: AutoInt: Automatic Integration for Fast Neural Volume Rendering, Google, Virtual

2020: Implicit Neural Representation Networks for Fitting Signals, Derivatives, and Integrals, Graphics and Mixed Environment Seminar (GAMES), Virtual

2020: A Camera to See Around Corners, Playground/Akasha Imaging, Palo Alto, CA

2019: A Camera to See Around Corners, TEDxBeaconStreet, Boston, MA

2019: Computational Imaging with Single-Photon Detectors, Boston University Center for Information & Systems Engineering (CISE), Boston, MA

2019: Efficient Confocal Non-Line-of-Sight Imaging, MIT RLE, Cambridge, MA

2019: Efficient Confocal Non-Line-of-Sight Imaging, MIT Media Lab, Cambridge, MA

2019: Computational Imaging with Single-Photon Detectors, Berkeley Center for Computational Imaging, Berkeley, CA

2019: Computational Single-Photon Imaging, Silicon Valley ACM SIGGRAPH Chapter, San Jose, CA

2019: Computational Imaging with Single-Photon Detectors, Stanford Center for Image Systems Engineering (SCIEN), Stanford, CA

2019: Computational Single-Photon Imaging, Carnegie Mellon University Graphics Lab, Pittsburgh, PA

PhD Advising

Felix Taubner
University of Toronto

Sep 2024–

Sherwin Bahmani
University of Toronto

Sep 2023–

Victor Rong <i>University of Toronto</i> Co-advised with Kyros Kutulakos	Sep 2023–
Anagh Malik <i>University of Toronto</i>	Sep 2022–
Samarth Sinha <i>University of Toronto</i> Co-advised with Igor Gilitschenski	Sep 2022–
Esther Lin <i>University of Toronto</i> Co-advised with Kyros Kutulakos	Sep 2022–

Master's Advising

Andrew Guo <i>MSc, University of Toronto</i>	Sep 2024–
Andrew Xie <i>MSc, University of Toronto</i>	Sep 2024–
Kelly Zhu <i>MSc, University of Toronto</i>	Sep 2024–
Maxx Wu <i>MSc, University of Toronto</i> Co-advised with Kyros Kutulakos	Sep 2023–
Umar Masud <i>MScAC, University of Toronto</i> Samsung	May 2024–Dec 2024
Steven Hyun <i>MScAC, University of Toronto</i> Samsung	May 2024–Dec 2024
Faraz Ali <i>MScAC, University of Toronto</i> Samsung	May 2024–Dec 2024
Carolina Villamizar <i>MScAC, University of Toronto</i> DWave	May 2024–Dec 2024
Kartik Kumar <i>MScAC, University of Toronto</i> DNEG	May 2023–Dec 2023
Yihan (Nick) Ni <i>MScAC, University of Toronto</i> DNEG	May 2023–Dec 2023
Kejia Yin <i>MScAC, University of Toronto</i> MODIFACE	May 2023–Dec 2023
Vahid Zehtab <i>MScAC, University of Toronto</i> Samsung	May 2023–Dec 2023
EJay Guo <i>MScAC, University of Toronto</i> DNEG	May 2022–Dec 2022

Visiting Students

Siddharth Somasundaram <i>MIT</i> Co-advised with Kyros Kutulakos	Sep 2024–Dec 2024
Michael Neumayr <i>TUM</i>	Sep 2024–Apr 2025

Undergraduate Advising

Allison Lau <i>University of Toronto</i>	Sep 2024–
Koichi Namekata <i>University of Toronto</i>	July 2024–
Howard Xiao <i>University of Toronto</i> NSERC Undergraduate Student Research Award	May 2024–
Mehar Khurana <i>IIT Madras</i> Mitacs Globalink	May 2024–
Weihan Luo <i>University of Toronto</i>	Sep 2023–
Zixin Guo <i>University of Toronto</i> University of Toronto Excellence Award	Jan 2023–
Zach Salehe <i>University of Toronto</i> NSERC Undergraduate Student Research Award	Jan 2023–May 2024
Jason Zhu <i>University of Toronto</i>	Sep 2023–May 2024
Steven Luo <i>University of Toronto</i>	Jan 2024–May 2024
Ariel Chen <i>University of Toronto</i>	Sep 2023–May 2024
Haojun Qiu <i>University of Toronto</i>	Sep 2022–May 2024
Andrew Qiu <i>University of Toronto</i>	Sep 2023–Dec 2023
Kevin Vaidyan <i>University of Toronto</i>	May 2023–May 2024
Noah Juravsky <i>University of Toronto</i>	May 2023–May 2024
Dorsa Molaverdikhani <i>University of Toronto</i>	Jan 2023–May 2024
Shahmeer Athar <i>University of Toronto</i>	Jan 2023–May 2024
Rishit Dagli <i>University of Toronto</i>	Jan 2023–Dec 2023
Roland Gao <i>University of Toronto</i> NSERC Undergraduate Student Research Award	Jan 2023–Sep 2023

Qing (Amy) Lyu <i>University of Toronto</i>	Jan 2023–May 2023
Louis Zhang <i>University of Toronto</i>	Jan 2023–May 2023
Junru Lin <i>University of Toronto</i>	Sep 2022–May 2023
Justin Tran <i>University of Toronto</i> Thesis: Generative 3D shape modeling using latent space diffusion	Sep 2022–May 2023
Skyler Zhang <i>University of Toronto</i> Thesis: Towards coded high-speed video acquisition using diffusion models	Sep 2022–May 2023