

# Arthur Kefan Chen

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<b>EDUCATION</b>	<b>Brown University</b> , Ph.D. candidate in Computer Science 2022 – 2026 <ul style="list-style-type: none"><li>▪ Advisor: Srinath Sridhar</li><li>▪ Research focus: 3D Vision, Diffusion GenAI, LLM/LVM, Digital Human, Embodied AI, VR/XR.</li></ul> <b>University of Toronto</b> , Bachelor in Electrical Engineering 2014 – 2018
<b>SKILLS</b>	Python, C++, C, Pytorch, Tensorflow, LLM/LVM, Large-scale ML training, Research
<b>INDUSTRY EXPERIENCE</b>	<b>Waymo (Google Self-driving)</b> , Research Intern Jun 2025 – Aug 2025 <ul style="list-style-type: none"><li>▪ Design multi-modal 3D perception models for autonomous driving leveraging LLM/LVMs.</li></ul> <b>Meta AI</b> , Researcher Jun 2024 – Mar 2025 <ul style="list-style-type: none"><li>▪ Research interactive 3D avatars using Gaussian Splatting for realistic digital human and VR/XR.</li></ul> <b>Meta Reality Labs</b> , Research Scientist Intern Jun 2023 – Dec 2023 <ul style="list-style-type: none"><li>▪ Research large image and video diffusion generative models for dexterous hand generation.</li></ul> <b>Pinterest</b> , Machine Learning Engineer Jan 2022 – Sep 2022 <ul style="list-style-type: none"><li>▪ Develop ML models to scalably extract metadata for shopping content data mining.</li></ul> <b>Gatik AI</b> , Perception Engineer Sep 2020 – Dec 2021 <ul style="list-style-type: none"><li>▪ Lead research and development of multimodal perception and sensor fusion for autonomous driving.</li></ul> <b>Google Research</b> , AI Resident Jun 2018 – Aug 2020 <ul style="list-style-type: none"><li>▪ Research 3D computer vision, camera pose estimation, and SO(3) representation learning.</li></ul> <b>NVIDIA</b> , Research Intern May 2017 – Aug 2017 <ul style="list-style-type: none"><li>▪ Develop Isaac virtual simulation for robotic training demonstrated at SIGGRAPH 2017. (News)</li></ul>
<b>PUBLICATION</b>	<ol style="list-style-type: none"><li>[1] <b>K Chen</b>, S Oprea, J Theiss, S Mohan, S Sridhar, A Prakash, “InteractAvatar: Modeling Hand-Face Interaction in Photorealistic Avatars with Deformable Gaussians,” <i>under review</i>, 2025.</li><li>[2] <b>K Chen</b>, C Min, L Zhang, S Hampali, C Keskin, S Sridhar, “FoundHand: Large-Scale Domain-Specific Learning for Controllable Hand Image Generation,” <i>Conference on Computer Vision and Pattern Recognition (CVPR)</i>, 2025.</li><li>[3] A Rai, D Wang, M Jain, N Sarafianos, <b>K Chen</b>, S Sridhar, A Prakash, “UVGS: Reimagining Unstructured 3D Gaussian Splatting using UV Mapping,” <i>Conference on Computer Vision and Pattern Recognition (CVPR)</i>, 2025.</li><li>[4] C Pokhariya, I Shah, A Xing, Z Li, <b>K Chen</b>, A Sharma, S Sridhar, “MANUS: Markerless Grasp Capture using Articulated 3D Gaussians,” <i>Conference on Computer Vision and Pattern Recognition (CVPR)</i>, 2024.</li><li>[5] C Lu, P Zhou, A Xing, C Pokhariya, A Dey, I Shah, R Mavidipalli, D Hu, A Comport, <b>K Chen</b>, S Sridhar, “DiVa-360: The Dynamic Visual Dataset for Immersive Neural Fields,” <i>Conference on Computer Vision and Pattern Recognition (CVPR)</i>, 2024. (<b>Spotlight, 2.81% acceptance rate.</b>)</li><li>[6] <b>K Chen</b>, Noah Snavely, Ameesh Makadia, “Wide-Baseline Relative Camera Pose Estimation with Directional Learning,” <i>Conference on Computer Vision and Pattern Recognition (CVPR)</i>, 2021.</li><li>[7] Jake Levinson, Carlos Esteves, <b>K Chen</b>, Noah Snavely, Angjoo Kanazawa, Afshin Rostamizadeh, Ameesh Makadia, “An Analysis of SVD for Deep Rotation Estimation,” <i>Conference on Neural Information Processing Systems (NeurIPS)</i>, 2020.</li></ol>
<b>ACADEMIC SERVICES</b>	Serve as reviewer for top AI conferences, CVPR, ICCV, ECCV, NeurIPS, ICML.