

# Kiran Chhatre

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Languages (CEFR): English (C2), German (B1), Swedish (A1)



## Research Summary

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Computer vision and ML researcher focused on **controllable generative models** (image/video, 3D/4D). Experience in foundation-model post-training, physics-based 3D/4D interaction data, and speech-driven emotional 3D animation.

## Education

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<b>KTH Royal Institute of Technology</b> , Stockholm, Sweden Ph.D. in Computer Science	Jan 2021– (est. Sep 2026)
<b>RWTH Aachen University</b> , Aachen, Germany M.Sc. in Mechanical Engineering	Sep 2017–Oct 2020
<b>COEP Technological University</b> , Pune, India B.Tech. in Mechanical Engineering	Jul 2010–May 2014

## Internships

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<b>Sony Research</b> , Kyoto, Japan Ph.D. Intern, Creative AI Lab Ph.D. Intern, Computer Science Laboratories (CSL)	Dec 2025–Mar 2026 Apr 2025–Jun 2025
<b>Adobe Research</b> , London, UK Research Scientist Intern, Graphics & 3D Imaging Research Research Ph.D. Intern, Multimodal Content Group	Jul 2025–Oct 2025 Apr 2024–Jul 2024
<b>Electronic Arts</b> , Stockholm, Sweden Ph.D. Intern, Search for Extraordinary Experiences Division (SEED)	Oct 2024–Mar 2025
<b>Max Planck Institute for Intelligent Systems</b> , Tübingen, Germany Guest Scientist, Perceiving Systems	Sep 2022–Dec 2024
<b>Ubisoft</b> , Bordeaux, France Ph.D. Intern, La Forge	Mar 2022–Jun 2022
<b>IBM Research</b> , Böblingen, Germany Machine Learning Intern, Watson Studio	Apr 2019–Sep 2019
<b>Dassault Systèmes</b> , Aachen, Germany CAE Developer Intern, SIMULIA	Jul 2018–Mar 2019

## Work Experience

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<b>Lawrence Berkeley National Laboratory</b> , Berkeley CA, USA Research Affiliate, Transportation Initiative (BEAM Team)	Nov 2019–Oct 2020
<b>Dassault Systèmes</b> , Pune, India CATIA Specialist, Learning Solutions Lab	Dec 2015–Aug 2017
<b>Autocop Telematics</b> , Bengaluru, India Mechanical Design Engineer, Automotive Accessories	Jul 2014–Nov 2015

## Selected Publications and Patents

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- Chhatre, K.** et al. "TrajectoryMover: Generative Movement of Object Trajectories in Videos," *arXiv:2603.29092*, 2026.
- Chhatre, K.** et al. "Learning 3D Texture-Aware Representations for Human Clothing & Body-Part Parsing," *AAAI*, 2026.
- Chhatre, K.** et al. "Audiopedia: Audio QA with Knowledge," *ICASSP (Oral)*, 2025.
- Chhatre, K.** et al. "Systems & Methods for Image Segmentation using 3D Image Features," *US Patent App. 19/284,065*, 2025.
- Chhatre, K.** et al. "Emotional Speech-Driven 3D Body Animation via Disentangled Latent Diffusion," *CVPR*, 2024.

## Honors and Awards

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ACM IVA Best Paper Award, Berlin, Germany	Sep 2025
European Union's Marie Skłodowska-Curie Actions Fellowship (CLIFE Project)	Jan 2021–Mar 2024
Lawrence Berkeley National Laboratory Fellowship, USA	Nov 2019–Oct 2020
Hans Hermann Voss Foundation Scholarship, Germany	Nov 2019–Jan 2020

## Technical Skills

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**Programming:** Python

**ML/AI:** PyTorch, PyTorch3D, Ray Scale

**3D/Graphics:** Blender (bpy), Bullet Physics, Unreal Engine, CATIA, SIMULIA, OptiTrack

**Multi-agent Systems/Optimization:** AutoML/SMAC3, BEAM, MCP (Serena, Context7, Sequential Thinking)