

# Khoi Nguyen

✉ ducminhkhloi@gmail.com

Ph.D. in Computer Science

🔍 Google Scholar

🏠 <http://khoinguyen.org/>

**Research interests:** 3D Reconstruction, Segmentation, Few-shot Learning, and Unsupervised/Self-supervised Learning

## EMPLOYMENT

---

Jul 2021 – Now

### Research Scientist

VinAI Research

Sep 2021 – Jun 2021

### Research Assistant

Oregon State University

## EDUCATION

---

Sep 2017 – Jun 2021

### Doctor of Philosophy in Computer Science

Oregon State University, Corvallis, OR, USA

- Thesis: "Part-based and Uncertainty-Aware Few-shot Object Segmentation in Images"
- Advisor: Prof. Sinisa Todorovic

Sep 2015 – Sep 2017

### Master of Science in Computer Science

Oregon State University, Corvallis, OR, USA

- Thesis: "Relational Networks for Visual Relationship Detection",
- Advisor: Prof. Sinisa Todorovic (GPA 3.73/4)

Sep 2009 – Apr 2014

### Bachelors's degree in Computer Science

Bach Khoa University (HCMUT), HCMC, Vietnam

- Thesis: "Entity Disambiguation System based on Wikipedia", advisor: Prof. Tru Cao
- Top-5 student in Computer Science Program (total 330 students), (GPA 8.51/10)

## STUDENT ADVISING

---

Current AI residents

- Ngo Duc Tuan, Aug 2021 - now, **3D Segmentation**, VinAI Research
- Pham Hai Chau, Aug 2021 - now, **Multi-view 3D Reconstruction**, VinAI Research
- Nguyen Van Thanh, Aug 2021 - now, **Few-shot Object Counting and Detection**, VinAI Research

## PUBLICATIONS

---

Conference papers

- Duong Le, Khoi D. Nguyen, Khoi Nguyen, Quoc-Huy Tran, Rang Nguyen, Binh-Son Hua, **POODLE: Improving Few-shot Learning via Penalizing Out-of-Distribution Samples**, in *Advances in Neural Information Processing Systems (NeurIPS)*, 2021
- Khoi Nguyen, Sinisa Todorovic, **A Weakly Supervised Amodal Segmenter with Boundary Uncertainty Estimation**, in *International Conference on Computer Vision (ICCV)*, 2021
- Khoi Nguyen, Sinisa Todorovic, **FAPIS: A Few-shot Anchor-free Part-based Instance Segmenter**, in *Computer Vision and Pattern Recognition (CVPR)*, 2021
- Khoi Nguyen, Sinisa Todorovic, **A Self-supervised GAN for Unsupervised Few-shot Object Recognition**, in *International Conference on Pattern Recognition (ICPR)*, 2020
- Khoi Nguyen, Sinisa Todorovic, **Feature Weighting and Boosting for Few-Shot Segmentation**, in *International Conference on Computer Vision (ICCV)*, 2019

## PROFESSIONAL ACTIVITIES

---

- Conference Reviewer
- ICLR 2022
  - WACV 2022
  - ICCV 2021
  - CVPR 2021
  - AAAI 2021
  - ECCV 2020

Journal Reviewer TPAMI, TIP

## EXPERIENCE

---

Jun 2019 - Sep 2019 **Research Intern**

AlBee US Corp - Palo Alto, CA, USA

- Multi-person Tracking by Segmentation in Surveillance Camera
- Mentor: Dr. Chunhui Gu, Dr. Sinisa Todorovic, Dr. Silvio Savarese

Jun 2018 - Sep 2018 **Research Intern**

Verisk Analytics - the AI Innovation Lab, Jersey City, New Jersey, USA

- Apply Graph Neural Network to image document analysis for extracting semi-structured information (W2 Form)
- Mentor: Dr. Maneesh Singh

## ADDITIONAL INFORMATION

---

References References upon request

- Awards/Scholarships
- Outstanding Reviewer Award, ECCV 2020
  - Vietnam Education Foundation (VEF) Fellowship (Cohort 2015)