

Patsorn Sangkloy

Authorized to work in the US without visa sponsorship
patsorn.sangkloy@gmail.com

EDUCATION	Doctor of Philosophy, Computer Science Georgia Institute of Technology, Atlanta, GA, Advisor: <i>James Hays</i> PhD Thesis: Controllable Image Synthesis and Image Retrieval	2015 – 2022
	Master of Science, Computer Science Brown University, Providence, RI, Cumulative GPA : 4.00,	2013 – 2015
	Bachelor of Engineering, Computer Engineering Khon Kaen University, Khon Kaen, Thailand, <i>First Class Honors and Gold Medal Award</i> Cumulative GPA : 3.86, (1 st /649)	2008 – 2012
WORK EXPERIENCES	Postdoctoral Researcher New York University <ul style="list-style-type: none">at Immersive Computing Lab with Qi Sun	present
	Faculty Member Phranakhon Rajabhat University, Bangkok <ul style="list-style-type: none">Teach: AI, ML, HCI, Design and Analysis of Algorithm, English for CS, Computer Architecture, Introduction to ProgrammingFulfilling a required appointment for the Royal Thai Government scholarship	June 2022 - June 2024
	Computer Vision Research Intern Argo AI, Pittsburgh <ul style="list-style-type: none">Project: Argoverse [4]	May 2019 - August 2019 May 2018 - August 2018
	Research Intern Adobe HQ, San Jose <ul style="list-style-type: none">Project: Scribbler [8], TextureGAN [9]Patent P6553-US-ORG on sketch2painting U.S. Patent No. 10,916,001	May 2017 - August 2017 May 2016 - August 2016

AWARDS/ GRANT	Fundamental Fund research grant	2023
	Adobe Research Fellowship	2018
	Royal Thai Government scholarship	2013 – 2019
	CRA-W Grad Cohort 2015 Participation Grant San Francisco, CA	10 – 11 April 2015
	CRA-W Grad Cohort 2014 Participation Grant Santa Clara, CA	11 – 12 April 2014
	Honor Medal From His Royal Highness Crown Prince Maha Vajiralongkorn Highest GPA in the department from selected universities	2012
	Faculty of Engineering, Khon Kaen University Fellowship Covers 4 years full tuition and stipend	2008 – 2012
	Excellent Academic Performance Fellowship Annual award for high GPA	2008 – 2012

MEDIA COVERAGE (selected)

Argoverse [4]

- **Self-driving car startup Argo AI is giving researchers free access to its HD maps**, Kirsten Korosec, [techcrunch.com](https://techcrunch.com/2019/06/05/argo-ai-giving-researchers-free-access-to-hd-maps/), June 2019
- **Ford's Argo AI will release its HD maps for free to autonomy researchers**, Andrew Krok, [cnet.com](https://cnet.com/2019/06/05/ford-argo-ai-will-release-its-hd-maps-for-free-to-autonomy-researchers/), June 2019

Scribbler/TextureGAN [8][9]

- **Adobe Scribbler AI can create a realistic color image from a sketch**, Brittany A. Roston, [slashgear.com](https://slashgear.com/2017/10/17/adobe-scribbler-ai-can-create-a-realistic-color-image-from-a-sketch/), Oct 2017
- **Georgia Tech Solves Texture Fill Problem with Machine Learning**, Ben Snedeker, [rdworldonline.com](https://rdworldonline.com/2018/07/26/georgia-tech-solves-texture-fill-problem-with-machine-learning/), July 2018

The Sketchy Database [10]

- **Scan your doodles to find the perfect matching photo online**, Aviva Rutkin, [newscientist.com](https://newscientist.com/2016/05/scan-your-doodles-to-find-the-perfect-matching-photo-online/), May 2016
- **A Search Engine That Matches Your Drawings to Photographs Isn't Too Far Off**, Emily Matchar, [smithsonian.com](https://smithsonian.com/2016/05/a-search-engine-that-matches-your-drawings-to-photographs-isnt-too-far-off/), May 2016

WebGazer [11]

- **Web developers, meet WebGazer: software that turns webcams into eye-trackers**, Katherine Noyes, [pcworld.com](https://pcworld.com/2016/06/01/web-developers-meet-webgazer-software-that-turns-webcams-into-eye-trackers/), June 2016
- **Brown boffins brew eye-tracking Javascript**, Richard Chirgwin, [theregister.co.uk](https://theregister.co.uk/2016/06/01/brown-boffins-brew-eye-tracking-javascript/), June 2016

**ACADEMIC
ACTIVITIES**

Organizing Committee for the WiCV workshop 30 September, 2024
Women In Computer Vision Workshop
In conjunction with ECCV conference 2024
<https://sites.google.com/view/wicveccv2024>

Organizing Committee for the WiCV workshop 3 October, 2023
Women In Computer Vision Workshop
In conjunction with ICCV conference 2023
<https://sites.google.com/view/wicviccv2023>

Organizing Committee for the 2nd MLRS 2023 2-9 August 2023
Machine Learning Research School in Bangkok, Thailand
<https://www.mlrs.ai>

Technical Program Committee for SketchDL 2021 19 June 2021
Sketch-Oriented Deep Learning (SketchDL) Workshop
In conjunction with CVPR conference 2021
<https://sketchdl.github.io/2021.html>

Program Committee for IEEE MIPR 2018 10-12 April 2018
IEEE 1st International Conference on
Multimedia Information Processing and Retrieval
<https://cchsu.info/mipr/history/2018/data/index.html>

Program Committee for GroupSight 2017 24 October 2017
Second Workshop on Human Computation for Image and Video Analysis
In conjunction with HCOMP conference 2017
<https://groupsight.github.io>

Program Committee for GroupSight 2016 6 November 2016
Second Workshop on Human Computation for Image and Video Analysis
In conjunction with HCOMP conference 2016
<https://groupsight.github.io>

Invited Reviewer
SIGGRAPH ASIA, SIGGRAPH, CHI, CVPR, ECCV, ICCV, ICML, NeurIPS (one
of the 400 highest-scoring reviewers in 2019), TPAMI

PUBLICATIONS
(selected)

[1] **StyleGAN Salon: Multi-View Latent Optimization for Pose-Invariant Hairstyle Transfer**

Sasikarn Khwanmuang, Pakkapon Phongthawee, [Patsorn Sangkloy](#) and Supasorn Suwajanakorn

[CVPR 2023](#), stylegan-salon.github.io/

[2] **A Sketch Is Worth a Thousand Words: Image Retrieval with Text and Sketch**

[Patsorn Sangkloy](#), Wittawat Jitkrittum, Diyi Yang and James Hays

[ECCV 2022](#), patsorn.me/projects/tsbir/

[3] **CONTROLLABLE CONTENT BASED IMAGE SYNTHESIS AND IMAGE RETRIEVAL**

[Patsorn Sangkloy](#)

[Phd Thesis 2022](#), Georgia Institute of Technology

[4] **Argoverse: 3D Tracking and Forecasting with Rich Maps**

MingFang Chang*, John Lambert*, [Patsorn Sangkloy*](#), Jagjeet Singh*, De Wang, Pete Carr, Simon Lucey, Deva Ramanan and James Hays

[CVPR 2019 \(oral\)](#), argoverse.org

[5] **Kernel Mean Matching for Content Addressability of GANs**

Wittawat Jitkrittum*, [Patsorn Sangkloy*](#), Muhammad Waleed Gondal, Amit Raj, James Hays and Bernhard Scholkopf

[ICML 2019 \(oral\)](#)

[6] **Informative Features for Model Comparison**

Wittawat Jitkrittum, Heishiro Kanagawa, [Patsorn Sangkloy](#), James Hays, Bernhard Scholkopf, Arthur Gretton

[NeurIPS 2018](#)

[7] **SwapNet: Image Based Garment Transfer**

Amit Raj, [Patsorn Sangkloy](#), Huiwen Chang, Jingwan Lu, Duygu Ceylan, James Hays

[ECCV 2018](#), eye.gatech.edu/swapnet

[8] **Scribbler: Controlling Deep Image Synthesis with Sketch and Color**

[Patsorn Sangkloy](#), Cynthia Lu, Chen Fang, Fisher Yu, James Hays

[CVPR 2017](#), scribbler.eye.gatech.edu

[9] **TextureGAN: Controlling Deep Image Synthesis with Texture Patches**

Wenqi Xian*, [Patsorn Sangkloy*](#), Cynthia Lu, Fisher Yu, Chen Fang, James Hays

[CVPR 2018 \(spotlight\)](#),

[10] **The Sketchy Database: Learning to Retrieve Badly Drawn Bunnies**

[Patsorn Sangkloy](#), Nathan Burnell, Cusuh Ham, James Hays

[SIGGRAPH 2016](#), sketchy.eye.gatech.edu

[11] **WebGazer: Scalable Webcam Eye Tracking Using User Interactions**

Alexandra Papoutsaki, [Patsorn Sangkloy](#), James Laskey, Nediya Daskalova, Jeff Huang, James Hays

[IJCAI 2016](#)

(* co-first authors)