

# Patsorn Sangkloy

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<b>EDUCATION</b>	<b>Doctor of Philosophy</b> , Computer Science Georgia Institute of Technology, Atlanta, GA, Advisor: <i>James Hays</i>	2015 – 2022
	<b>Master of Science</b> , Computer Science Brown University, Providence, RI, Cumulative GPA : 4.00,	2013 – 2015
	<b>Bachelor of Engineering</b> , Computer Engineering Khon Kaen University, Khon Kaen, Thailand, <i>First Class Honors and Gold Medal Award</i> Cumulative GPA : 3.86, (1 <sup>st</sup> /649)	2008 – 2012
<b>WORK EXPERIENCES</b>	<b>Lecturer</b> Phranakhon Rajabhat University, Bangkok <ul style="list-style-type: none"><li>Teach: AI, ML, HCI, Design and Analysis of Algorithm, English for CS, Computer Architecture, Introduction to Programming</li></ul>	June 2022 - present
	<b>Computer Vision Research Intern</b> Argo AI, Pittsburgh <ul style="list-style-type: none"><li>Project: Argoverse [4]</li></ul>	May 2019 - August 2019 May 2018 - August 2018
	<b>Research Intern</b> Adobe HQ, San Jose <ul style="list-style-type: none"><li>Patent P6553-US-ORG on sketch2painting U.S. Patent No. 10,916,001</li><li>Project: Scribbler [8], TextureGAN [9]</li></ul>	May 2017 - August 2017 May 2016 - August 2016
	<b>Organizing Committee for the WiCV workshop</b> Women In Computer Vision Workshop In conjunction with ICCV conference 2023 <a href="https://sites.google.com/view/wicviccv2023/">https://sites.google.com/view/wicviccv2023/</a>	3 October, 2023
<b>Organizing Committee for the 2nd MLRS 2023</b> Machine Learning Research School in Bangkok, Thailand <a href="https://www.mlrs.ai/">https://www.mlrs.ai/</a>	2-9 August 2023	
<b>Invited Reviewer</b> SIGGRAPH ASIA, SIGGRAPH, CHI, CVPR, ECCV, ICCV, ICML, NeurIPS, 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/](https://github.com/sasikarnkhwanmuang/stylegan-salon)

[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/](https://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](https://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](https://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](https://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](https://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)

**MEDIA  
COVERAGE**  
(selected)

**Argoverse [4]**

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

**Scribbler/TextureGAN [8][9]**

- **Adobe Scribbler AI can create a realistic color image from a sketch**, Brittany A. Roston, [slashgear.com](http://slashgear.com), Oct 2017
- **Adobe's Scribbler AI automatically colorizes any portrait**, Andrew Tarantola, [engadget.com](http://engadget.com), Oct 2017

**The Sketchy Database [10]**

- **Scan your doodles to find the perfect matching photo online**, Aviva Rutkin, [newscientist.com](http://newscientist.com), May 2016
- **A Search Engine That Matches Your Drawings to Photographs Isn't Too Far Off**, Emily Matchar, [smithsonian.com](http://smithsonian.com), May 2016

**WebGazer [11]**

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

**AWARDS**

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