

Patsorn Sangkloy

College of Computing, School of Interactive Computing,
Georgia Institute of Technology
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- EDUCATION**
- Doctor of Philosophy,** Computer Science 2015 – present
Georgia Institute of Technology, Atlanta, GA,
- Master of Science,** Computer Science 2013 – 2015
Brown University, Providence, RI,
Cumulative GPA : 4.00,
- Bachelor of Engineering,** Computer Engineering 2008 – 2012
Khon Kaen University, Khon Kaen, Thailand,
First Class Honors and Gold Medal Award
Cumulative GPA : 3.86, (1st/649)
- RESEARCH EXPERIENCE**
- Fine-grain sketch based image retrieval** May 2017 - August 2017
Research Intern@Adobe HQ San Jose
 - Mentors: Ersin Yumer, Hailin Jin, Jingwan (Cynthia) Lu, Chen Fang
- Sketch-based Image Synthesis [1][2]** Aug 2016 – May 2017
Georgia Institute of Technology
 - Generate realistic image from sketch, scribbler stroke, and texture patch
 - Collaborators: Wenqi Xian, Fisher Yu, James Hays, Jingwan (Cynthia) Lu, Chen Fang
- Sketch2Painting [Patent P6553-US-ORG]** May 2016 – Aug 2016
Research Intern@Adobe HQ San Jose
 - Generate a painting of various style based on user sketch
 - Mentors: Jingwan (Cynthia) Lu, Chen Fang
- The Sketchy Database [3]** August 2015 – May 2016
Georgia Institute of Technology
 - Create a database of sketch/image pair and train a cross-domain siamese networks that embed sketches and photographs into a common feature space.
 - Collaborators: James Hays, Nathan Burnell, Cusuh Ham
- Webcam Eyetracking [4]** November 2014 – June 2015
Brown University
 - Real time eye gazing estimation with webcam camera.
 - Collaborators: Jeff Huang, Alexandra Papoutsaki, James Hays

- PUBLICATIONS** [1] **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
- [2] **TextureGAN: Controlling Deep Image Synthesis with Texture Patches**
Wenqi Xian* **Patsorn Sangkloy***, Cynthia Lu, Fisher Yu, Chen Fang, James Hays
(* co-first authors)
Under review for CVPR 2018,
- [3] **The Sketchy Database: Learning to Retrieve Badly Drawn Bunnies**
Patsorn Sangkloy, Nathan Burnell, Cusuh Ham, James Hays
Siggraph 2016, sketchy.eye.gatech.edu
- [4] **WebGazer: Scalable Webcam Eye Tracking Using User Interactions**
Alexandra Papoutsaki, **Patsorn Sangkloy**, James Laskey, Nediya Daskalova, Jeff
Huang, James Hays
IJCAI 2016
- [5] **Let's Dance: Learning From Online Dance Videos**
Daniel Castro, Steven Hickson, **Patsorn Sangkloy**, Bhavishya Mittal, Sean Dai,
James Hays and Irfan Essa
Axiv 2018

**MEDIA
COVERAGE**
(selected)

Scribbler/TextureGAN [1][2]

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

The Sketchy Database [3]

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

WebGazer [4]

- **Web developers, meet WebGazer: software that turns webcams into
eye-trackers**, Katherine Noyes, pcworld.com, June 2016
- **Brown boffins brew eye-tracking Javascript**, Richard Chirgwin, theregis-
ter.co.uk, June 2016

REVIEWER

SIGGRAPH ASIA 2016, SIGGRAPH 2017, CHI 2018, CVPR 2018, SIGGRAPH
2018, TPAMI

SKILLS

Programming Language: Python, Matlab, Lua,
Deep learning framework: caffe, torch/pytorch, tensorflow

AWARDS

| | |
|---|--------------------|
| 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 |