

# Pao Siangliulue

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Research Interests Human-Computer Interaction (HCI), Machine Learning, Creativity Support, Design, Crowdsourcing

Education **Harvard University, Cambridge, MA** Sep.2011-Present  
Ph.D. candidate in Computer Science, expected: May 2017  
School of Engineering and Applied Sciences, SEAS  
Advisor: Krzysztof Gajos

**Stanford University, Stanford, CA** Sep.2006-May.2011  
M.S. in Computer Science (Specialization: HCI)  
B.S. in Electrical Engineering

Employment **IIS Group, SEAS, Harvard University** Sep.2011-Present  
Research Assistant (with Prof. Krzysztof Gajos)

**HCI Group, Stanford University** Jun.2009-Jan.2011  
Student Researcher (with Prof. Scott Klemmer)

**NVIDIA** Jun.2008-Aug.2008  
Software Intern  
Designed and implemented software build infrastructure for Nvidia's mobile team.

**Very Low Frequency Group, Stanford University** Jun.2007-Aug.2007  
Student Researcher (with Prof. Umrhan Inan)  
Designed and set up a system to digitize analog data from the Dynamics Explorer project

**Mathematics Department, Stanford University**

Sep.2007-Jun.2008

Tutor

Tutored college students in Linear Algebra, Multi-variable Calculus and Differential Equations

Research **Collaborative Innovation at Scale**

Jun.2012-Present

Advised by Prof. Krzysztof Gajos and Prof. Steven Dow (Carnegie Mellon University)  
Addressing the challenges of large scale innovation platforms by developing methods and systems for helping people make effective use of each other's ideas, and for orchestrating collective effort to reduce redundancy and increase the breadth of generated ideas.

**Understanding Idea Generation on Open Innovation Platforms**

Sep.2013-Present

Advised by Prof. Krzysztof Gajos  
Analyzing data from OpenIDEO.com and other open innovation platforms to understand how a crowd generates ideas and explores different alternatives.

**Creativity Experiment on a Large Scale**

Jun.2013-Present

Advised by Prof. Krzysztof Gajos and Prof. Steven Dow (Carnegie Mellon University)  
Building a platform with a set of tasks, evaluation metrics and recruitment mechanisms to facilitate empirical evaluation of creativity interventions.

**Mobile Memory**

Jun.2010-Aug.2011

With Jesse Cirimele; Advised by Prof. Scott Klemmer  
Designed and implemented mobile and web applications to explore prospective benefits of tagging audio recording on mobile phones to capture and review events.

**Automatic Retargeting of Web Page Content**

Jun.2009-Aug.2009

With Ranjitha Kumar; Advised by Prof. Scott Klemmer  
Implemented an algorithm that deals with the heterogeneity of websites and extracts their design template automatically. This is a part of an HCI research project, Bricolage, to design a web-based tool for study on web page design by examples.

Publications

**CONFERENCE PAPERS:**

Toward Collaborative Ideation at Scale—Leveraging Ideas From Others to Generate More Creative and Diverse Ideas.

**Pao Siangliulue**, Kenneth C. Arnold, Krzysztof Z. Gajos, and Steven P. Dow.

CSCW 2015. (28.3% acceptance rate, 8 pages)

Providing Timely Examples Improves the Quantity and Quality of Generated Ideas

**Pao Siangliulue**, Joel Chan, Krzysztof Z. Gajos, and Steven P. Dow.

Creativity and Cognition 2015. (28.1% acceptance rate, 10 pages)

**POSTERS, DEMOS, AND WORKSHOP PAPERS:**

Intelligent Systems to Support Large-Scale Collective Creative Idea Generation

**Pao Siangliulue**.

Creativity and Cognition 2015 Graduate Symposium.

Supporting Collaborative Innovation at Scale

**Pao Siangliulue**.

UIST 2015: ACM Symposium on User Interface Software and Technology Doctoral Symposium.

**UNPUBLISHED MANUSCRIPTS AND TECHNICAL REPORTS:**

Predicting mode of transport from iPhone accelerometer data

Ben Nham, **Kanya Siangliulue**, Serena Yeung.

Unpublished manuscript, 2008.

Head Tracking: An Alternative Input for Video Tutorials When Our Hands are Occupied

Min Ming Lo, **Kanya (Pao) Siangliulue**.

Unpublished manuscript.

Visualizing ImageNet

John Le, **Pao Siangliulue**, Jonathan Wang.

Unpublished manuscript.

Teaching **CS179: Design of Usable Interactive Systems**  
**Harvard University** Spring.2013  
Teaching Fellow with Prof. Krzysztof Gajos  
Ran a weekly studio on user interface designs. Graded assignments, quizzes and projects. Gave a lecture on front-end web development.

**CS547: Human-Computer Interaction**  
**Stanford University** Sep.2010-Jun.2011  
Course Assistant  
Created and organized website showcasing talks on HCI research. Handled class logistics.

**CS106A/B: Programming Methodology**  
**Stanford University** Sep.2008-Mar.2010  
Section Leader  
Taught weekly sections, graded programming assignments, and graded exams

Invited Talks **Supporting Collaborative Innovation at Scale**  
Boston University Image and Video Computing group seminar Oct. 6, 2015

Awards & Honors **Winner, ID HACK (The International Development Hackathon)** 2014  
**Inducted into Tau Beta Pi Engineering Honor Society** 2009  
**Stanford President's Award for Academic Excellence** 2007  
**King's Scholarship from His Majesty the King of Thailand** 2005

Service **Organizer, CrowdCamp Workshop at HCOMP 2013, 2014** Nov.2013, Nov.2014  
**Student Volunteer - UIST (2010), CHI (2014)**  
**Officer, Harvard Aikikai** Sep.2013-Present  
**Organizer, Pad Thai and Beyond**  
**Fundraising event for Thailand's 2011 flood relief** Mar.2012  
**Project Leader, Project Laos 2009, Xiang Khouang Laos, Southeast Asia Service Leadership Network (SEALNet)** Nov.2008-Sep.2009  
Led a team of college students to run an English and leadership workshop for Hmong and Laotian high school students from a free English School in Laos.

**Head of Fundraising, Project Thailand 2008**

**Southeast Asia Service Leadership Network (SEALNet)** Nov.2008-Sep.2009

Planned and ran a service project to educate 500 middle school students on sanitation, built 2 drinking water tanks for the school and helped establish a student-run environment committee.

**Social Chair, Tau Beta Pi Engineering Honor Society** Mar.2009-Mar.2010

**Corporate Sponsorship Officer,**

**Stanford Scientific Magazine** Sep.2007-Apr.2008

**Comic Artist, American Go Association (AGA)** Jun.2007-Jan.2009

**Publicity Co-Director, Stanford-Thai Exchange Program** Sep.2006-Jun.2007

References

**Krzysztof Gajos**

Associate Professor, Harvard University

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617.496.1876

**Steven Dow**

Assistant Professor, Carnegie Mellon University

[spdown@cs.cmu.edu](mailto:spdown@cs.cmu.edu)

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