

# Yutian Tang

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## Current position

*Ph.D. candidate*, The Hong Kong Polytechnic University, Hong Kong

## Areas of specialization

Software Product Line • Configuration System

## Education

2013 BSc in Computer Science, Jilin University, China  
2017 PhD in Software Engineering, The Hong Kong Polytechnic University, Hong Kong

## Grants, honors, membership & awards

2016 Student member of IEEE  
2014 Student member of Hong Kong Computer Society  
2013-2017 Ph.D scholarship, Department of Computing, The Hong Kong Polytechnic University  
2012 Jilin University Scholarship, Third Price  
2012 Intermediate Title of Software Engineer(China Qualification Certificate of CS Tech. Proficiency)  
2011 Jilin University Scholarship, Second Price  
2011 Outstanding Student Award in College, Jilin University

## Publications

2017a **Yutian Tang**, Hareton Leung, “StiCProb: A Novel Feature Mining Approach Using Conditional Probability”, *In Proceedings of 24th IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER)* pp 45-55.  
2017b **Yutian Tang**, Hareton Leung, “Constructing Feature Model by Identifying Variability-aware Modules”, *In Proceedings of 25th IEEE International Conference on Program Comprehension (ICPC)* pp 263-274.  
2015a **Yutian Tang**, Hareton Leung, “A Top-down Feature Mining Framework for Software Product Line”. *In Proceedings of International Conference on Enterprise Information System (ICEIS)* pp 71-81.  
2015b **Yutian Tang**, Hareton Leung, “Feature Mining for Product Line Construction”, *The First International Conference on Advances and Trends in Software Engineering(SOFTENG)* pp29-33.

## Projects & Tools

- 2017-current **TypeC: Variability-aware C-program IDE.** [Java][Eclipse-plugin][Compiler-tool]
1. a program checker for type checking, syntax checking and extract variability information from C program; it is developed as an Eclipse plugin;
  2. <http://www.chrisyttang.org/typec/>
- 2016-current **LoongFMR: Loong Feature Model Recovery Toolkit.** [Java][Eclipse-plugin][Architecture]
1. an architecture extractor and feature model verifier for software product line; it is developed as an Eclipse plugin;
  2. it also integrates with five related strategies, including NLP;
  3. [http://www.chrisyttang.org/loong\\_fmr/](http://www.chrisyttang.org/loong_fmr/)
- 2015-current **Loong: Colored IDE for Feature Locating** [Java][Eclipse-plugin][Code-2-Architecture]
1. Loong is a software product line tool for analyzing and decomposing legacy code and constructing product line and it follows the paradigm of virtual separation of concerns;
  2. <http://www.chrisyttang.org/loong/>

## Employment

- 11/2013-8/2014 **Part-time Student Helper@The Hong Kong Polytechnic University, Hong Kong**
1. support website design and provide technical support in backend development for Education Development Center.

## Teaching

I service as a Teaching Assistant for following subjects.

- 2016/17a **COMP3235: Software Project Management**  
2016/17b **COMP3233: Software Testing and Quality Assurance**  
2015/16a **COMP4911: Capstone Project**  
2015/16b **COMP3211: Software Engineering**  
2014/15 **COMP3235: Software Project Management**  
2013/14a **COMP309: System Programming**  
2013/14b **COMP322: Enterprise Information Systems Project Implementation**

## Skill

### 0.1 LANGUAGES

Java, C, C++, Python, HTML, CSS, Javascript, Php, MySQL

### 0.2 TOOLS

Soot, Bootstrap, Eclipse JDT, CDT, Matlab

Last updated: July 8, 2017 • Typeset in X<sub>Y</sub>TeX

<http://www.chrisyttang.org/cv.pdf>