Yutian Tang

Curriculum Vitae

Education

2013–2017   **Ph.D.**, *The Hong Kong Polytechnic University*, Hong Kong.
Department of Computing

2009–2013   **Bachelor**, *Jilin University*, Changchun, P.R.China.
Department of Computer Science and Technology

Working Experience

2017–Current   **Research Associate**, *Department of Computing*, The Hong Kong Polytechnic University.
Involve in RGC project with Hong Kong Government.
○ Implements a crawler tool named *inappcrawler* for Google Play with Scrapy framework;
○ Decompiles and analyses the Google Service Framework;
○ Project Demo and Output: `http://www.chrisyttang.org/android-instant-app/index.html`;

2014–2015   **Part-time Student Helper**, *Educational Development Centre*, The Hong Kong Polytechnic University.
○ Enrol in course team for designing course material and present those online;
○ Develop the front-end webpage for the department;
   – Skill-set: HTML, CSS, JS, JQuery, Android, Java backend;
   – Tools: Android Studio, Dreamweaver;
   – Ability: Programming, problem solving, team work;

Publications

2017   **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.

2017   **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.

2015   **Yutian Tang**, Hareton Leung, "Top-down Feature Mining Framework for Software Product Line", *In Proceedings of International Conference on Enterprise Information System (ICEIS)* pp 71-81.

Professional Qualifications & Membership

2017   Member of ISACA

2017   Student Member of IEEE

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2017	Student Member of Hong Kong Computer Society
2012	Intermediate Title of So ware Engineer (China Qualification Certificate of Computer Science Technology Proficiency)

Projects and Tools

2017-curr **AndroidInstantApp**.
- Hong Kong SAR government project under RGC entitled "Improving Mobile Users' Privacy Decisions via Exposing Unexpected Sensitive Operations in Hardened Apps";
- Implement a crawler tool for scanning and downloading Instant App from Google Play with Scrapy framework and SQLite DB;
- Skillset: Scrapy, SQLite, Python;

2016-2017 **TypeC**, *Eclipse plugin toolkit for conditional compilation with CDT*.
- Rewrite the CDT parser for processing all possible configuration options with a single scanning;
- Implement the analysis framework for understanding configuration and find valid configuration with a single iteration;
- Skillset: Java, Eclipse CDT, plugin, C;
- URL:`http://www.chrisyttang.org/typec/`

2016-2017 **LoongFMR**, *Eclipse plugin toolkit for product line architecture understanding with JDT*.
- Implement the main framework, comparison approaches using graph optimisation, NLP, and static analysis;
- Except the static analysis, architectures are extracted and presented;
- Skillset: Java, Eclipse JDT, plugin;
- URL:`http://www.chrisyttang.org/loong_fmr/`

2015-2016 **Loong**, *Eclipse plugin toolkit for product line understanding with JDT*.
- Implement the main framework and details for product line analysis;
- Implement static analysis, including build the program database(AST based), control flow, data flow, points-to analysis;
- Data extraction and analysis with R;
- Skillset: Java, Eclipse JDT, plugin;
- URL:`http://www.chrisyttang.org/loong/`

2015-2016 **Course project**, *P2P data sharing toolkit on Android*.
- A course project, which aims at implementing a p2p data sharing;
- Enable p2p chat, audio/video transformation/sharing over XMPP and SIP;
- Skillset: Android, Socket;
- Implement the data sharing module for text, video, and audio;

Skills

- OO Programming: Java, Python, C++, Android;
- Web: HTML, CSS, JS, JQuery, Java, Php;
- DB: MySQL, MongoDB;
- Tool & Framework: Eclipse (JDT, CDT), Soot, Boot, Eclipse plugin, Matlab;
- Decompile: Apktool;

Teaching

2016–2017(1)	**COMP3235**, *Software Project Management*, PolyU-Bachelor Degree Course, Department of Computing.
2016–2017(2)	**COMP3233**, *Software Testing and Quality Assurance*, PolyU-Bachelor Degree Course, Department of Computing.
2015-2016(1)	**COMP4911**, *Capstone Project*, PolyU-Bachelor Degree Course, Department of Computing.
2015-2016(2)	**COMP3211**, *Software Engineering*, PolyU-Bachelor Degree Course, Department of Computing.
2014-2015	**COMP3235**, *Software Project Management*, PolyU-Bachelor Degree Course, Department of Computing.
2013-2014(1)	**COMP309**, *System Programming*, PolyU-Bachelor Degree Course, Department of Computing.
2013-2014(2)	**COMP322**, *Enterprise Information Systems Project Implementation*, PolyU-Bachelor Degree Course, Department of Computing.

References

- Dr. Hareton Leung, Associate Professor, Supervisor, cshleung@comp.polyu.edu.hk;
- Dr. Daniel Xiapu Luo, Research Assistant Professor, Supervisor, luoxiapu@gmail.com;
- Dr. Ting Chen, Associate Professor, Cooperator, brokendragon@uestc.edu.cn;