# Jiaxuan Li

Postgraduate student, Department of Computer Science
University of Harbin Institute of Technology, Shenzhen, China

Email: jiaxuanliniki@gmail.com
webpage:


## Education

**Hai Nan University, Hainan, China**

B.S., computer science — Jun. 2017 to Jul. 2013

GPA: 3.67 / 4.0 (88.2 / 100), Top 3%

Supervisor: Yucong Duan

**Harbin Institute of Technology，Shenzhen, China**

M.S., computer science — Sep. 2017 to Now

GPA: 3.1 / 4.0, Top 30%

Supervisor: Philippe Fournier-Viger

## Publications

- **Jiaxuan Li**, Fournier-Viger, P., Lin, J. C.-W., Truong, T. (2018). Discovering low-cost high utility patterns. 1st International Workshop on Utility-Driven Mining (UDM2018), in conjunction with the KDD 2018 conference, ACM press, 9 pages. **Spotlight presentation**

- Fournier-Viger, P., **Jiaxuan Li**., Lin, J. C.-W., Chi, T.T. (2019). Discovering and Visualizing Patterns in Utility Sequences. Proc. 21st Intern. Conf. on Data Warehousing and Knowledge Discovery (DAWAK 2019), Springer, to appear.

- Efficiently Extracting Cost-Effective patterns from Sequential Event Log. Fournier-Viger, P.[a,*], **Jiaxuan Li**[b], Jerry Chun-Wei Lin[c], Tin Truong Chi[d], R. Uday Kiran[e]. Knowledge-Based Systems (KBS), Elsevier. Under review.

- Duan, Yucong, **Jiaxuan Li**, Qiang Duan, Lixin Luo, and Liang Huang. "Empirical rules-based view abstraction for distributed model driven development." International Journal of Computational Science and Engineering 17, no. 2 (2018): 192-207.

## Intern & Research Experience

- **2012 Lab, Huawei Technologies** — Jun. 2019 to Aug. 2019
  Mentor: Dr. Zixian Zhang
  - Designed, implemented and tested a function for analyzing the data structure of drawings generated from AutoCAD software, automatically extracting and checking relevant information to ensure the drawings as instructors are correctly made.
  - This feature was added as an additional plugin into AutoCAD and was deployed to the server as well.
- **Noah'Ark Lab, Huawei Technologies** — Aug. 2019 to Now
  Mentor: Dr. Min Zhou
  - Designing algorithms based on dynamic attributed graph to mine strong correlated alerts pattern using in Communication System to filter some alerts that are mineral important and locate the source of the devices sending the important alert.

- **Undergraduate Research Assistant** Jul. 2016 to May. 2017

  Mentor: Dr. Yucong Duan

  - Organized knowledge graphs of high school subjects (Mathematic, Physics, Biology, and Chemistry) made by Freemind software, and visualized those graphs using d3.js and implemented a basic query feature.
  - Involved in implementing UML class diagram detection tools, which supports checking whether exist rings, gets a high level abstract class diagram(Big Picture) and query the path between classes.

## Awards

- Outstanding graduate of Hainan University, 2017.
- Interdisciplinary Contest in Modeling Certificate of Achievement, Honorable Mention, 2016.

**华为实习：**

**数据解析**

**算法设计**

**成果：内部插件，网站检测**

**分析图纸数据结构，设计，实现，测验图纸自动审查算法；开发 feature on autoCAD VBA，并部署到网站，现已开始投入试用。（怎么体现和我要申请的相关呢）**

有数字，有内容，有结果（模式识别）
由于是新的领域，撰写 30 余页开发文档，记录的图纸的数据结构，算法的设计，以及开放中踩过的坑；
1 个半月内，分析，设计，实现并测试了一项功能为了实现对 AUTOCAD 构建的图纸内容进行自动审查。

1. 提取并分析 20 余种图纸中所包含信息的**数据结构**并找出相应**关键特征**
2. 根据**特征**提取图纸中指定区域某类配件的描述信息并比对**输出详细比**对结果到 excel 表，难点在于直接从图纸中提取出来的信息是无结构的。
3. 对图纸的操作规范进行审查以及是否存在人工操作失误（比如缺少图纸中某一配件的描述或者在图纸中丢失某一配件等）

4. 测试了 200 页图纸，目前这项功能被添加到自动审查项目投入使用。

这过程中我咋编啊，用了什么数据结构挖掘算法（prefixspan，frequent high？？？）
需不需要做分类？

实习的时候对做的项目签了保密协议，这个在 CV 中描述的时候应该如何控制描述的详细程度？

- Designed, implemented and tested a function for automatically checking the drawings' content, made by AUTOCAD software, about servers.
- Analyzed about 20 types of drawings, extracted their components' data structure and mined different components' crucial features, respectively.
- Based on those features, extracted contents in specified areas, and compared those information with the official documents, and finally outputted a detailed verification result as excel.
- Checked the operating specifications of the drawings, such as the intersection between texts and lines, missing arrows and so on; and manual errors, such as the absence of a

component' description or missing a component that should be contained in the drawing.

- Tested about 40 thousands drawings, and now this feature was added into their project provided for using.

1 页纸，1 页半
重要信息要加粗吗？不要
简历以**动词**开头；
PS 一般过去时，现在时，要统一；
应用的技能和方法；
描述的过程用了什么方法；或者理论；达到了什么样的结果；数据呈现；
奖学金
WES