



# 罗家祯

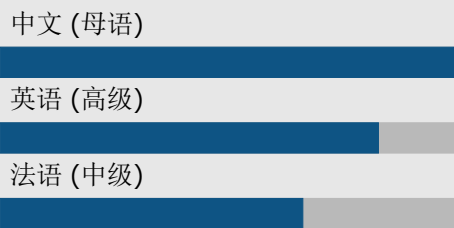
## For an exciting job

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- [jjazhen.luo@outlook.com](mailto:jjazhen.luo@outlook.com)
- <https://gitee.com/CharlieLUO>

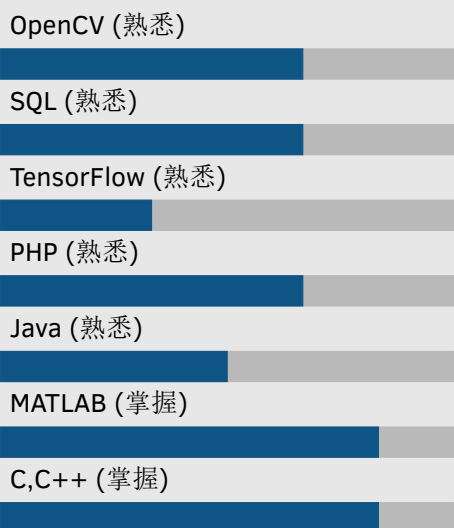
## 技能图谱



## 语言能力



## 编程能力



## 教育背景

- 2015 - 至今 航空电子技术, 硕士 中国民航大学  
天津  
航空机载电子设备, 自动控制与导航, 计算机视觉
- 2011 - 2015 工科试验班 中国民航大学  
天津  
法国预科教育体系, 掌握深厚的数理基础

## 课题研究

- 2013 - 2016 人体消化道全景图像拼接算法研究 中国民航大学
  - 跟随导师参与国家自然科学基金项目, 学习图像拼接与三维表面重建技术, 提出一种二维图像与三维表面重建的组合方法。
  - SIFT, ORB, SURF, KAZE/AKAZE 等特征提取算法研究
  - 撰写专利《一种图像二维拼接与三维表面重建的组合方法》(公布号 CN 105303615 A)
  - 提出一种适用于类 SIFT 特征描述子的加速算法, 成果以论文形式发表于第二届国际计算、视觉与图像会议 (EI 索引)

## 实习经历

- 2017.7 - 2017.12 数据开发与分析 LIAS, ENSMA  
法国, 普瓦捷
  - 学习数据库测试的生命周期 (lifecycle) 与数据库管理系统选择中的挑战
  - 建立数据库管理系统测试的模型, 通过 Oracle 12g AWM 设计并实现一个高维模型数据仓库存储该模型数据
  - 搭建数据采集平台, 基于数据仓库构建推荐系统
  - 应用条件随机场模型, 提出算法, 实现对 PDF 文件中的非结构化信息的自动化提取
  - 文本挖掘研究
- 2015.7 - 2015.8 助理工程师 中国科学院自动化研究所  
北京
  - 参与基于计算机视觉的光学表面缺陷系统的研发, 主要负责设计算法实现对图像中的污渍和其他缺陷进行分类, 使用“GIST 特征 + 支持向量机”的组合方式实现目标。
  - 使用主成分分析法对 GIST 特征降维
  - 采用 OpenCV 与 C++ 实现上述算法, 并通过 Office 应用程序编程接口实现自动生成 word 格式的检测结果报表
  - 申请两份专利 (公布号 CN 105447512 A, CN 105631857 A)

## 其它信息

- 个人主页 (<http://www.hellocharlie.top>)
  - 个人维护的网站。
  - 娱乐的同时, 分享数学和计算机科学知识。
- 自我评价
  - 乐于探索、积极上进
  - 数学基础扎实、会说英语和法语的工程师

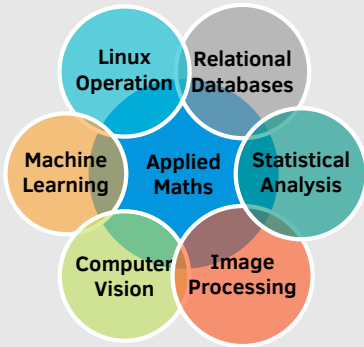


# Jiazhen LUO

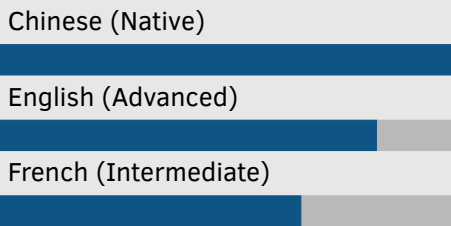
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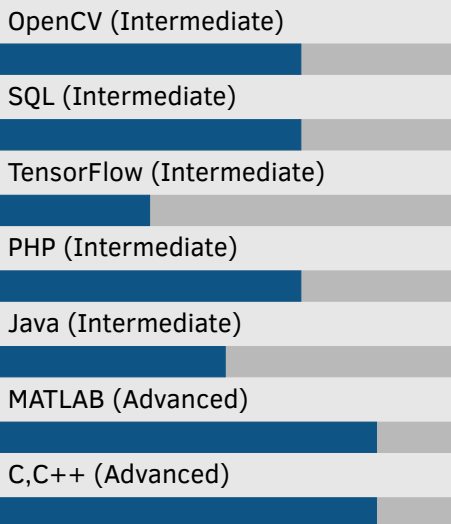
## Skill Tree



## Languages



## Programmings



## Education

- Expected Jul. 2018 **MEng., Avionics** Civil Aviation University of China Tianjin, China  
Specialized in avionics and accumulated a wealth of programming experience on Linux platform.
- 2011 - 2015 **BEng., Propulsion Engineering** Civil Aviation University of China Tianjin, China  
Mastered comprehensive knowledge on mathematics and physics.

## Research

- 2013 - 2016 **Graduate Research Assistant** Civil Aviation University of China
  - Studied the **2D image stitching** & **3D reconstruction** techniques and proposed a method to perform 2D stitching and 3D reconstruction in parallel.
  - Wrote and applied a patent for the proposed method.
  - Proposed an algorithm to accelerate the matching process for a set of features and wrote a **paper** describing the algorithm, which will be accepted for publication and oral presentation by 2017 2nd International Conference on Image, Vision and Computing (ICIVC 2017).

## Experience

- Jul. 2017 - Dec. 2017 **Database Intern** LIAS, ENSMA Poitiers, France
  - Learned the tests in database and the challenges in the selection of DBMS.
  - Designed and implemented a data warehouse for the test of database with **Oracle 12g AWM**.
  - Developed web applications to feed the warehouse and a **recommender system** based on the warehouse.
  - Proposed an algorithm, which is a Conditional Random Field model, to perform **information extraction** task from the scientific publications (pdf files).
  - Text mining** research.
- Jul. 2015 - Aug. 2015 **Assistant Engineer** Institute of Automation, Chinese Academy of Sciences Beijing, China
  - Proposed an algorithm to distinguish scratches from dirty marks using **Support Vector Machine(SVM)**.
  - Used GIST features and performed **Principal Component Analysis(PCA)** before the SVM phase.
  - Involved in development of a special optical surface scratches detecting software with **C++&OpenCV**.
  - Applied two patents related to flaw detection techniques.

## Misc.

- Personal Homepage/Blog ([www.hellocharlie.top](http://www.hellocharlie.top))
  - Construct and maintain a personal website.
  - Share mathematical and computer knowledge on line.
- Self-evaluation
  - Comprehensive Mathematical knowledge
  - Curious and initiative