# Yuanchen Wang

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## EDUCATION

**University of Warwick** — **Coventry, UK**
*Integrated Master, MMORSE (Hon)* — *Sep 2021 – Jun 2022*
*Bachelor of Science, BSc MORSE (Hon), 2:1 Upper Second Class* — *Sep 2018 – Jun 2021*
- Modules: Multivariate Statistics, Applied Statistic Modelling, Bayesian Statistics, Applied Stochastic Process, Simulation, Monte Carlo, Game Theory, Optimization, Operational Research for Strategic Planning
- Dissertation Topic: Spatial Outbreak Detection (Professor: Simon Spencer)

**Cornell University** — **Ithaca, USA**
*Summer College Program (Micro & Macroeconomics), Score A* — *Jul 2017– Aug 2017*

**World Foreign Language Academy** — **Shanghai, China**
*International Baccalaureate Diploma* — *Sep 2015 – Aug 2018*
- Final score: 42/45 (Mathematics, Economics, Chemistry, Chinese, English, German)

## RELEVANT WORK EXPERIENCE

**PINGAN Technology** — **Shanghai, China**
*Algorithm Engineer Intern, Data Science* — *Sep 2021 – Dec 2021*
- Performed statistical analysis and pre-processed on unstructured insurance domain for corpus analysis, sequence tagging and enhancement (including Regression, Clustering, Decision Tree)
- Construct insurance knowledge graph (Neo4j) from text data using NLP models (BERT, Word2Vec, Bi-LSTM+CRF) based in *Python* (sklearn, tensorflow, pytorch) and validate outputs for semantic enhancement

**Morgan Stanley** — **Shanghai, China**
*Operational Risk Intern, Risk Management* — *May 2021 – Aug 2021*
- Conducted weekly & monthly risk reports via quantitative review of risk events including internal/external incidents and issues to assess timewise risk themes and forward results to Wealth Management, US Banks
- Crawled operational risk related global news using R *rvest* and *httr*, to automate Daily External Summary

**LANXESS Chemistry** — **Shanghai, China**
*Data Management Intern, Process Controlling and Management* — *Feb 2021 – May 2021*
- Used *UiPath* robotic automation to capture data from SAP (Systems Applications & Products) and Customs
- Conducted logical validation of company's CMS (Customs Management System) across databases

**Alibaba Group** — **Hangzhou, China**
*Data Analyst Intern, Product Management* — *Oct 2020 – Nov 2020*
- Test and optimize the data analysis system under product operation, including KPI index, App DAU curve
- Conduct comparison analysis on paid membership service products (JD, Taobao, Costco, Sam's Club)

## PROJECTS

**Statistical Analysis Report of Violent and Non-violent Crime in USA**
*Warwick Statistic Department Group Research* — *Jan 2021 – May 2021*
- Performed data cleaning, variables transformations and correlation tests on the dataset
- Utilised *glmnet* package in R to construct Lasso, Ridge and Elastic Net regression models and evaluation

**Anomaly Detection in London Housing Market with LSTM Autoencoders**
*Academic Research under the guidance of MIT Professor Mark Vogelsberger* — *Sep 2020 – Jan 2021*
- Constructed LSTM Autoencoder within Tensorflow to detect anomalies based on MAR (Mean absolute error)
- Accepted by *The 5th International Conference on Machine Learning & Soft Computing* (ICMLSC 2021)

**The realization of smart data matching in B2B brand market**
*Internet + Entrepreneurship Team Competition* — *Jul 2020 – Oct 2020*
- Implemented MySQL data query functions to do data screening, modelling and cross validation of user data
- Present the matching results to users with data visualization, with corresponding matching scores

## EXTRACURRICULAR EXPERIENCE

**Warwick Data Science Society (wdss.io)** — **Coventry, UK**
*R Programming Course Mentor* — *Oct 2020 – Dec 2020*
- Provided mentees with guidance on the '*Into the Tidyverse*' course content and training exercises

**Warwick China Development Society (warwickcds.co.uk)** — **Coventry, UK**
*Think Tank Coordinator / Vice President* — *Oct 2018 – Mar 2020*
- Sourced and invited speakers to weekly events: China Talk, Key Speaker Series and annual China Summit
- Responsible for fundraising activities, establishing new and existing sponsorships

**High Fliers Research** — **Coventry, UK**
*The Times Final Year Student Survey 2020 Interviewer* — *Feb 2020*
- Conducted over 20 career surveys with final year undergraduates at the University of Warwick

## SKILLS

**Languages**: Mandarin/Chinese (native), English (fluent), German (intermediate) and Cantonese (beginner)
**IT Skills**: Python, R, MySQL, Excel, Simul8, SPSS, UiPath, Tableau, FineBI, LaTex, Adobe Premier
**Hobbies**: Boxing/Muay Thai, Fitness, Hip Pop, Self-media creation, Yoyo, Wildlife Protection
**Certificates**: Coursera (Machine Learning, Data Science and Multivariate Calculus), UiPath Foundation

# 王 元辰

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## 教育背景

**华威大学，考文垂/英国**                                                                    **2018.10 - 2022.6**
- 数统（统计与运筹学）本硕 4 年项目
- 相关课程：多元&贝叶斯统计，应用统计建模，应用随机过程，蒙特卡洛，博弈论，运筹规划&优化
- 毕业论文：Spatial Outbreak Detection (教授: Simon Spencer)

**康奈尔大学，伊萨卡/美国**                                                                    **2017.7 - 2017.8**
- 夏校项目，AME 1300 宏观经济与微观经济（GPA: A）

**世界外国语中学 IB 国际部,上海**                                                              **2015.9 - 2018.8**
- International Baccalaureate Diploma，毕业统考：42/45 （数学、经济、化学、中文、英文、德语）

## 工作经历

**平安科技，算法工程师实习生（数据科学部），上海**                                              **2021.9 – 2021.12**
- 对非结构化保险领域进行统计分析和预处理，用于语料库分析、序列标注和增强(包括回归、聚类、决策树)
- 使用 Python (sklearn, torch, tensorflow)在文本数据上训练不同的 NLP 模型（BERT, Word2Vec, Bi-LSTM+CRF），构建保险知识图谱（Neo4j），并对输出数据进行验证和语义增强

**摩根士丹利，操作风险实习生（ORD），上海**                                                      **2021.5 - 2021.8**
- 通过对风险事件（包括内部/外部事件和问题）的定量审查，完成每周和每月风险报告，用来评估按时间划分的风险类别，并将审查结果提供给财富管理部门（Wealth Management）进行进一步分析和追踪
- 使用 R *rvest* 和 *httr* 对操作风险相关的全球新闻进行网络爬取，以自动化生成每日外部摘要

**朗盛化学，控制与流程管理实习生，上海**                                                        **2021.2 - 2021.5**
- 使用 RPA 机器人自动化工具 UiPath，从 SAP（Systems Applications & Products）和海关获取物料数据
- 跨数据库对公司的 CMS 关务管理系统进行物料数据的逻辑判断，使用大样本数据测试维护系统

**阿里巴巴集团，数据分析实习生，杭州**                                                          **2020.10 - 2020.11**
- 测试和优化产品操作下的数据分析系统，包括 KPI 指数，App DAU 曲线
- 对付费会员制服务型产品（京东，淘宝，好市多，山姆会员店）进行多维度产品比较分析

## 课题项目

**华威大学统计系学术报告：美国暴力和非暴力犯罪统计分析报告**                                      **2021.1 - 2021.5**
- 对 *USACrime* 数据集执行数据清理、变量转换和相关性测试
- 利用 R 中的 *glmnet* 包建立 Lasso、Ridge 和 Elastic Net 回归模型和相关的评估分析

**用 LSTM 自动编码器检测伦敦住宅市场的房价异常**                                                **2020.9 – 2021.1**
- 在 TensorFlow 中构建 LSTM 自动编码器，根据平均绝对误差检测异常
- 在麻省理工学院教授 Mark Vogelsberger 指导下，论文摘要被第五届国际机器学习与软计算会议(2021)收录

**互联网+创业大赛：智能数据匹配在 B2B 品牌市场中的实现和发展前景**                              **2020.07 - 2020.10**
- 通过 MySQL 数据查询内置函数来进行数据筛选，与 Python / R 的数据分析功能模版联结对用户数据进行建模和有效性测试，针对不同的匹配度进行打分，用数据可视化中向用户呈现匹配结果

## 课外活动

**华威数据科学社团，R语言课程导师 (wdss.io)**                                                  **2020.10 - 2020.12**
- 为学生提供有关 "Into the Tidyverse" 课程内容以及课后练习方面的指导

**High Fliers Research，The Times 2020年应届毕业生学生求职社会调查｜学生助理**                  **2020.2**
- 与华威大学的应届本科生进行了 20 多次求职调查，反馈欧洲市场的就业倾向

**华威中国发展社团，智库/副主席 (warwickcds.co.uk)**                                          **2018.10 - 2020.3**
- 邀请各大高校的教授、学生定期线下分享中国论坛，名人讲坛，并组织了年度中国峰会
- 负责维持拓展社团的赞助与合作商，帮助维护社团内部运作，以及跨社团的合作

## 技能 & 爱好

**语言**: 普通话 (母语)，英语 (流利)，德语 (中级)，粤语（初级）

**计算机**: Python, R, MySQL, Excel, Simul8, SPSS, UiPath, Tableau, FineBI, LaTex, Adobe Premier

**爱好**: 拳击/泰拳，健身，嘻哈街舞，自媒体创作，溜溜球，野生动物保护

**学术证明**: Coursera 结课证书（机器学习&数据科学&金融会计类），UiPath Foundation