Yuxin Wang

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EDUCATION

University of Bonn   Bonn, Germany
M.Sc. in Economics | GPA: 2.0/1.0   *Oct 2019 – Sep 2021*
- **Major**: Econometrics and Computer Engineering
- **Awards**: Scholarship Award in STIBET I program of DAAD, 2021(top 1%)

China University of Political Science and Law   Beijing, China
B.B.A. in International Business | GPA: 2.0/1.0   *Sep 2014 – Jun 2018*
- **Major**: International Business Analysis
- **Awards**: First Prize in Sixth Heshi Cup National Business Competition, 2016 (top 1%)

China University of Political Science and Law   Beijing, China
B.L. in Law | GPA: 2.3/1.0   *Sep 2015 – Jun 2019*
- **Major**: Civil and Commercial Law
- **Awards**: First Prize Scholarship Holder of CUPL, 2015 (top 3%)

PROJECTS

Scientific Computing Project for Economist | *Python, GitHub*   Sep 2021 – Jan 2022
- Collaborated with economists and contributed to open source projects via GitHub; compiled an estimation tutorial and improved documentation for *pydsge*, a package for dynamic stochastic general equilibrium model, on Nuvolos
- Set up CI/CD environments for cross-platform and cross-version code control; established and deployed Docker images running in different Python versions using GitHub Actions; run automatic integration tests via *PyTest*
- Applied serialization functions recursively on Windows system, activated the process-based parallel computing with *multiprocessing* package; adopted an optimization solution for Unix system via Pycharm and reduced 83% runtime

Projecting the Effects of Government Policies against Covid-19 | *Python*   Mar 2021 – Jul 2021
- Managed 20k+ observations over 5k+ households on the LISS panel, a Netherlands national data set; explored the associations between socioeconomic variables and individual compliance with policies via OLS and a DID approach
- Distinguish 3 outcome categories, selected 8 key features and added 4 interaction terms for multinomial logit regression and time series analysis; identified specific subgroups for policy target and tested model goodness of fit
- Calibrated *OpenABM*, a machine learning model proposed by University of Oxford in 2020; inputted history data and predicted infection probability for next wave using *scipy*; tested model validation by in and out of sample fit

Panel Data Models with the Fixed Effects | *Python, R*   Sep 2020 – Feb 2021
- Set up Monte Carlo simulations by 9 data generating process, constructed 4 panel data models; defined 2 algorithms and simulated 1M+ data for coefficient calculations and statistical property testings in consistency and efficiency
- Applied analysis to 5k+ real data and reached consistency in line with theory; visualized the performances of 2 estimators under different sample sizes and number of factors; utilized 4 plot kinds and drew 34 plots by *ggplot2*
- Refactored code from R to Python; detected and executed tasks via *PyTask*, an automated build tool, for code efficiency and maintainability; optimized code structure and speed up 400 times using *multiprocessing* and *numba*

Computational Statistics Project | *R, Jupyter Notebook*   Apr 2020 – Jul 2020
- Duplicated classification analysis for binary-response model using logistic regression; set seed and simulated training set and test set by *glm*; employed confusion matrix to evaluate model accuracy and presented by mosaic plot
- Refitted a linear regression by resampling method; calculated confidence intervals with 2 times of standard errors for the naive bootstrap; evaluated the trade-off between interval length and coverage probability under 100 repetitions
- Compared the performances of OLS and causal forest under 3 set-up models and 5 sample sizes; assessed the quality of fitness for both and utilized tree plot and 3D surface plot to showcase the usage of estimation tools in real data

TECHNICAL SKILLS

Programming: Python, R, LaTex, Git, Jupyter Notebook, SQL, Stata, Matlab
Data Analysis: Power BI, Tableau, SAP, Google Data Studio, Google Analytics, Adobe Analytics
Languages: Chinese(native), English(fluent), German(elementary)

PROFESSIONAL EXPERIENCE

China Mobile International Ltd.   Frankfurt, Germany
Business Operation Analyst, European Data Center   *Mar 2022 – Present*
- Translated 5k+ business requests from sales description into technical specifications; proactively aligned with back-end developers on system operational improvements via **GitHub**, achieved a 23.5% lift of working efficiency
- Gathered 1k+ customer feedbacks, transferred questionnaires for data cleaning; selected covariates and applied customer behavior models; utilized PCA to reduce model complexity and visualize results for key parameters
- Performed exploratory analysis on the historical revenues, pre-processed raw data from finance department in **Python**; utilized an ensemble model and run A/B test for data-driving decision making and consistency prediction

Huawei Technologies Co., Ltd.   Munich, Germany
Marketing Analyst, Munich Research Center   *Sep 2021 – Jan 2022*
- Co-developed with IT department a digital workflow for assets design, procurement and allocation and via **GitLab**; developed and deployed Python scripts to increase degree of process automation in marketing report system
- Identified and reprocessed data from 10+ publishers and their analytics service platforms, e.g. Google Analytics, Adobe Analytics; designed and enhanced the reporting deck for marketing performance analysis in **Power BI**
- Defined appropriate accuracy metrics to evaluate the performance of statistical models for marketing dynamics; measurement in terms of bias, precision and coverage by using *statsmodels* and *linearmodels* libraries in **Python**

BMW China Services Co., Ltd.   Beijing, China
Supply Chain Analyst, Logistics & Supply Chain Department   *Jul 2018 – Nov 2018*
- Processed 50+ backlogs on a daily basis, handled 1,500+ orders in **SAP**, an ERP system, every week; ensured logistics efficiency by monitoring deliveries and pickups in 5 regional distribution centers over China Mainland
- Standardized data source for delivery records analysis by **SQL** and visualized results by **Power BI**; maintained a stable and consistent reporting infrastructure, identified and implemented the potential process optimisations
- Evaluated performance of 198 suppliers based on their late delivery records in *LPKM*, a supplier management system; visualized results in dashboard, provided feedbacks and negotiated further cooperation plans with them

Siemens Ltd. China   Beijing, China
Marketing Trainee, Digital Industry Department   *Apr 2019 – Sep 2019*
- Organized and devised 3 campaigns for onsite B2B exhibitions regarding product launch and display in Shanghai
- Constructed 7 virtual events; initiated digital methods to showcase products via 3D models on **HTML5** websites
- Designed 1500+ questionnaires to gather marketing promotion feedbacks from business customers, tracked post-event outcomes from social media platforms and made out marketing performance report by **Power Query**

TELUS Communications Inc.   Shanghai, China
Sales Intern, Marketing & Sales Department   *Jun 2016 – Aug 2016*
- Promoted latest products to Canadian telecom users by phone calls, achieved a 15% increase of sales record
- Assisted monthly summary of revenues, costs and sales amount to evaluate the KPI of sales department by **Excel**; visualized sales record results and reported team performance to line manager by **Power Point**

EXTRA-CURRICULAR EXPERIENCE

Co-Founder at Honey Style   Beijing, China
Finance Head   *Apr 2015 – Jun 2018*
- Researched and analyzed 100+ paper on the demands and supply chain channels regarding domestic pet industry; conducted 1300+ investigations on the pricing of pet products and service satisfaction of customers in Beijing area
- Participated in national business competitions and won Project Excellence Award; raised €6,250+ funds from local companies and government; set up an onsite pet care center in Beijing and managed daily operations of the store
- Reviewed and reconcile monthly revenues, ensured cash flows and billings are accomplished on time and accurately; revealed cost structures, monitored actual inventories and purchase expenditures for keeping a healthy debt ratio
- Established online e-commerce business of the pet store via Wechat Mini App and Alibaba online delivery; yielded €2,500+ net profits within 2 years and sought angel financing for scaling up business norm in the third year

Research Assistant at University of Bonn   Bonn, Germany
Macrofinance and Econometrics Lab   *Sep 2020 – Apr 2021*
- Worked on topics of financial and economic growth, using a US panel data consisting of 50 states over 20 years
- Provided a theoretical rationale for the hypothesis of positive correlation between rising efficiency of bank lending and macroeconomic growth rates; dropped outlier and established a causality by using OLS model via **Stata**
- Observed underestimations and omitted variable issue, add an instrument variable and lifted robustness by 67.2%; detected model overfitting and removed irrelevant coefficients; achieved a 57.3% increase of prediction accuracy