

LEI KANG

Phone: (408) 306-5019 • **Email:** koudash@gmail.com • Houston, TX 77030
LinkedIn: <https://www.linkedin.com/in/koudash/> • **Github:** <https://github.com/koudash>

SUMMARY

Data Analyst with Certificate in Data Analytics Boot Camp from Rice University. Proven ability in performing data analysis and visualization using Python, JavaScript, machine learning, and more to generate reports that offers valuable business insights. Rapid adaptation towards different company cultures validated by the experiences as a former scientific researcher with strong communication and team-work skills showcased by more than 10 co-authored SCI publications.

TECHNICAL SKILLS

Languages & Libraries: Python, Pandas, NumPy, SciPy, Matplotlib, Flask, Beautiful Soup, Splinter, Selenium, scikit learn, Keras, PySpark, R, Excel and VBA

Web & Visualization: HTML/CSS, Bootstrap, JavaScript, D3.js, Plotly.js, Leaflet, Heroku, Tableau

Databases: SQL, MongoDB

PROJECTS

Odds Are Odd | <https://github.com/koudash/Odds-Are-Odd/> | <https://oddsodd.herokuapp.com/>

- Historical odds movements data of season 2018/2019 for 5 European leagues and MLS from a total of 4 betting companies were scraped and analyzed. Four types of machine learning models were built up accordingly with optimized ones selected to predict soccer match results.
- 100% oversaw every aspect of the project, from data scraping and cleaning to model training, from coding to visualization of predictions, etc.
- **Tools used:** Python | Pandas | Selenium | Tableau Public | Sklearn and Keras machine learning models | HTML & CSS | JavaScript | Flask | Heroku

Welcome to the Apocalypse | <https://github.com/koudash/Welcome-to-the-Apocalypse>
<https://apocalypse-database.herokuapp.com/>

- Natural disasters specifically in the forms of earthquakes, volcanoes, and tsunamis from 1900 till now were examined and illustrated on the map with trends analyzed along time.
- Scraped data for one out of four charts and wrote all HTML and most of JavaScript codes
- **Tools used:** Python | Pandas | Splinter | SQLAlchemy | Flask | HTML & CSS | Javascript | Heroku

Endangered Animals | <https://github.com/koudash/Endangered-Animals/>

- Facts about 69 endangered animals, articles with their names in New York Times, as well as the historical temperature of their habitat countries were scraped to be stored in MongoDB. A HTML webpage was set up for data inquiry through communicating with Flask.
- Scraped animal facts data, set up MongoDB and Flask server, created HTML interface, and built connections among HTML, Flask server, and MongoDB
- **Tools used:** Python | Pandas | Splinter | Selenium | pymongo | Flask | HTML & CSS

EXPERIENCE

- Sr Research Assist** May 2018 – Apr 2019
MD Anderson Cancer Center Houston, TX
- Worked in a core laboratory providing RNA sequencing service
- Postdoctoral Researcher** Nov 2015 – May 2018
Baylor College of Medicine Houston, TX
- Studied molecular mechanisms of renal fibrosis both *in vitro* and using mouse models
- Postdoctoral Researcher** Oct 2014 – Oct 2015
University of Alabama at Birmingham Birmingham, AL
- Focused on identifying residual pluripotent stem cells by universal 3D3 antibody to human podocalyxin like protein after extended differentiation
- Postdoctoral Researcher** Aug 2012 – Sep 2014
Stanford University Palo Alto, CA
- Validated CD47 *in vivo* imaging for bladder cancer in orthotopic mouse model

EDUCATION

- Certificate from Data Analytics Boot Camp: Rice University** Houston, TX
A 24-week intensive program focused on gaining technical programming skills in Excel, VBA, Python, R, JavaScript, SQL Databases, Tableau, Big Data, and Machine Learning.
- Doctor of Philosophy in Microbiology from Wuhan University** Wuhan, China
Bachelor of Science in Biological Sciences from Wuhan University Wuhan, China
Bachelor of Engineering in Applied Chemistry from Wuhan University Wuhan, China