Yupeng Kong

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Objective

A Ph.D in Physics with excellent analytical skills is currently seeking a position as a data scientist, data analyst or quantitative analyst.

Education

M.S. in Analytics, **University of San Francisco (USF)**, 2015 (Expected)
Ph.D. in Physics, **University of Oregon (U of O)**, 2010
M.S. in Optics, **Institute of Physics, Chinese Academy of Sciences(IPHY)**, 2004
B.S. in Applied Physics, **Beijing University of Technology (BJUT)**, 2001

Working Experiences

Post-Doctoral Fellow **University of California, San Francisco, 12/2010 – 04/2014**

Imaged blood vessels of mouse embryos and brains with two-photon microscope for the study of vasculogenesis, arteriovenous specification and angiogenesis. Carried out image acquisition and processing.

Accomplishments :

- Played a key role in developing and maintaining a two-photon microscope system, including optical elements alignment and software control.
- Acquired, processed and analyzed 3D florescent images of mouse embryos and brains.

Selected Projects

- **Sentiment Classification of Movie Reviews**
  The goal of this project is to predict movie reviews as positive or negative based on sentiment analysis. For total 1000 positive and 1000 negative movie reviews, the accuracy of prediction is 82% using Naive Bayes, a standard machine learning algorithm.
- **Movie Investment Analysis**
  This project aims to examine movie investments by analyzing the budget and revenue of 4,358 movies released from 1950 to 2014. All detailed moive information were quried from movie database APIs, such as IMDB, TMDB, OMDB and Rotten Tomatoes. As results, movie production companies, movie genres and movie directors were ranked by the budget and revenue ratio, respectively.
- **Image Acqusition and Analysis**
  This project aims to accurately detect colloidal particles in time-lapse microscopy images. Using particle tracking algorithm, the particle can be located with a precision of 20nm

Technical Skills

Python, Java, R, MySQL, Matlab, Mathematica, Mathcad