

Bing Ni (倪冰)

Profile Highlights

- Research interest in Data Mining, Visual Analytics
- Research project management experience since 2013
- 5-year post-doctorate experience in Huawei, ASTRI
- Fluency in Mandarin, Cantonese, and English
- Critical thinking, easy-going attitude, and high motivation



nibing AT ust.hk



home.cse.ust.hk/~nibing/



Room 4204, HKUST

Educational Background

- The Chinese University of Hong Kong, PhD, Computer Science (2011)
- Nanjing University of Posts and Telecommunications, MEng, Computer Science (2003)
- Nanjing University of Posts and Telecommunications, BEng, Computer Science (2000)

Research Project Experience

- Data Visualization & Visual Analytics of Telco Big Data (04/2013 –02/2016)
 1. Participating into building a visual analytics system for Weibo check-in data
 2. Participating into building visual analytics systems for data collected by telco operators, and studying urban movement patterns.
- Genetic Analysis (11/2009 – 11/2010)
 1. Participating into a collaborative project aiming at genetic analysis of alternative splicing, responsible for building a novel and unbiased approximate matching tool;
 2. Assessing the novel matching algorithm by comparing different seeding strategies for alternative splicing detection.
- Approximate Matching Algorithm Design (11/2006 – 11/2009)
 1. Designing and implementing a novel deterministic approximate matching algorithm that is potentially used for genomic sequences;
 2. Participating into CUDA optimization of the approximate matching algorithm.

Professional Experience

- **Computer Officer** at Hong Kong Univ. of Science & Technology, 07/2016 – Present

I **coordinate research projects** that are aimed at building open-source platform for enhancing learning design, data module, and data visualization in online learning platforms, both massive open online courses (MOOCs) and small private online courses (SPOCs).

- **Research Associate** at Hong Kong Univ. of Science & Technology, 04/2016 – 07/2016

I participated into research projects that are aimed at building visual analytics systems for analyzing human mobility pattern with spatio-temporal big data.

- **Researcher** at Noah's Ark Lab Huawei Technologies, 04/2013 – 03/2016

1. I acted as the project manager and coordinated the collaborated project with HKUST and other institutions.
2. I participated into two research projects that were aimed at building visual analytics systems for spatio-temporal big data. I also contributed to IPR.

- **Engineer** at Applied Science & Technology Research Institute (ASTRI), 04/2011 – 02/2013

I participated into a phrase II project. Based on the prototype developed in the phrase I, the target delivery of the project is an E-publisher system. Search engine is a necessary part of the system, which had not been customized in the phrase I. I was responsible for modifying and implementing the search engine.

- **Software Engineer** at IBM, 04/2003 – 09/2004

I participated into various projects. In one of the projects, I was involved in the migration of a legacy system from Japan to China. The system that was built with SAP solution maintained big amount of transaction data, including order, shipment, and services etc. Among the two months I remained in the project, I was responsible for clarifying the components in the system and interfaces among them.

- **Intern** at Motorola, 02/2002 – 08/2002

The team I joined is based on project, and the target of the project is to integrate a new function to a long-established product line. I was involved in different phrases of a product lifecycle, including brainstorming, planning, and implementation.