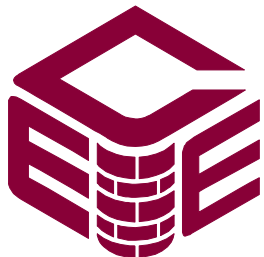


Hong Kong PhD Fellowship Scheme (HKPFS) 2021/22

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DEPARTMENT OF
CIVIL AND ENVIRONMENTAL ENGINEERING
土木及環境工程學系

Hong Kong PhD Fellowship Scheme (HKPFS)

2021/22 - Schedule

Date	Event
From 1 September 2020 (at 12 noon, Hong Kong time) to 1 December 2020 (at 12 noon, Hong Kong time)	Applicants should first submit initial applications via UGC's system (https://cerg1.ugc.edu.hk/hkpfs/InitApplication.jsp) to obtain a HKPFS reference number
2 December 2020 (at 11:59 pm, Hong Kong time)	Deadline for applicants to submit full applications to PolyU via eAdmission (http://www.polyu.edu.hk/admission) <i>* 2 December 2020 (at 11:59 pm) is also the deadline for online payment of application fee. Applicants have to settle the application fee by this deadline or their applications will not be further processed.</i>
9 – 17 December 2020	Shortlisted applicants will be contacted for interviews by academic departments
18 December 2020	Deadline for academic departments to provide the full list of HKPFS candidates to the Graduate School (GS)
Between 6 and 8 January 2021 (to be confirmed)	The PolyU Selection Panel for HKPFS 2021/22 will select the best and most qualified nominees amongst academic departments' candidates for submission to the RGC
By 12 January 2021	Academic departments to polish the research plans and vision statements of the nominees selected by the PolyU Selection Panel via eAdmission (http://www.polyu.edu.hk/admission)
18 January 2021	Deadline for GS to submit the full set of applications/supporting documents of HKPFS nominees to RGC
Early/mid-March 2021	Announcement of results by RGC

HKPFS – Promotional Websites

- UGC's website of the Fellowship Scheme:
<https://cerg1.ugc.edu.hk/hkpfs/index.html>
- PolyU's promotional website:
<http://www.polyu.edu.hk/ro/hkphd-fellowship/>



The HKPFS Fellowship

- The RGC will provide each HKPFS awardee with a monthly stipend of **HK\$26,600** and a conference and research related travel allowance of **HK\$13,300 per year** for a maximum of **three years**.
- PolyU will award those with a **four-year normal study period** the same provision during their fourth year of study and provide each HKPFS awardee with a tuition scholarship covering the entire normal study period.
- **Hall accommodation** in the first two years of study will also be guaranteed.

Admission Requirements

- **High quality candidates worldwide**
 - Academic excellence
 - Research ability and potential
 - Cultural diversity
 - Leadership ability and societal responsibility
 - Communication and interpersonal skills
- **English language requirements**
 - An overall score of at least **6.5** (the writing component at 6.0 or above) in the International English Language Testing System (**IELTS**)
 - A Test of English as a Foreign Language (**TOEFL**) score of **80** or above for the Internet-based test or **550** or above for the paper-based test

Successful HKPFS Recipients in 2020/21 under Prof. Anthony Chen's Supervision



Sathana received his B.S. in Civil Engineering from Chiangmai University, **Thailand**.

Awarded a 3-year HKPFS fellowship from RGC plus an additional year from PolyU*

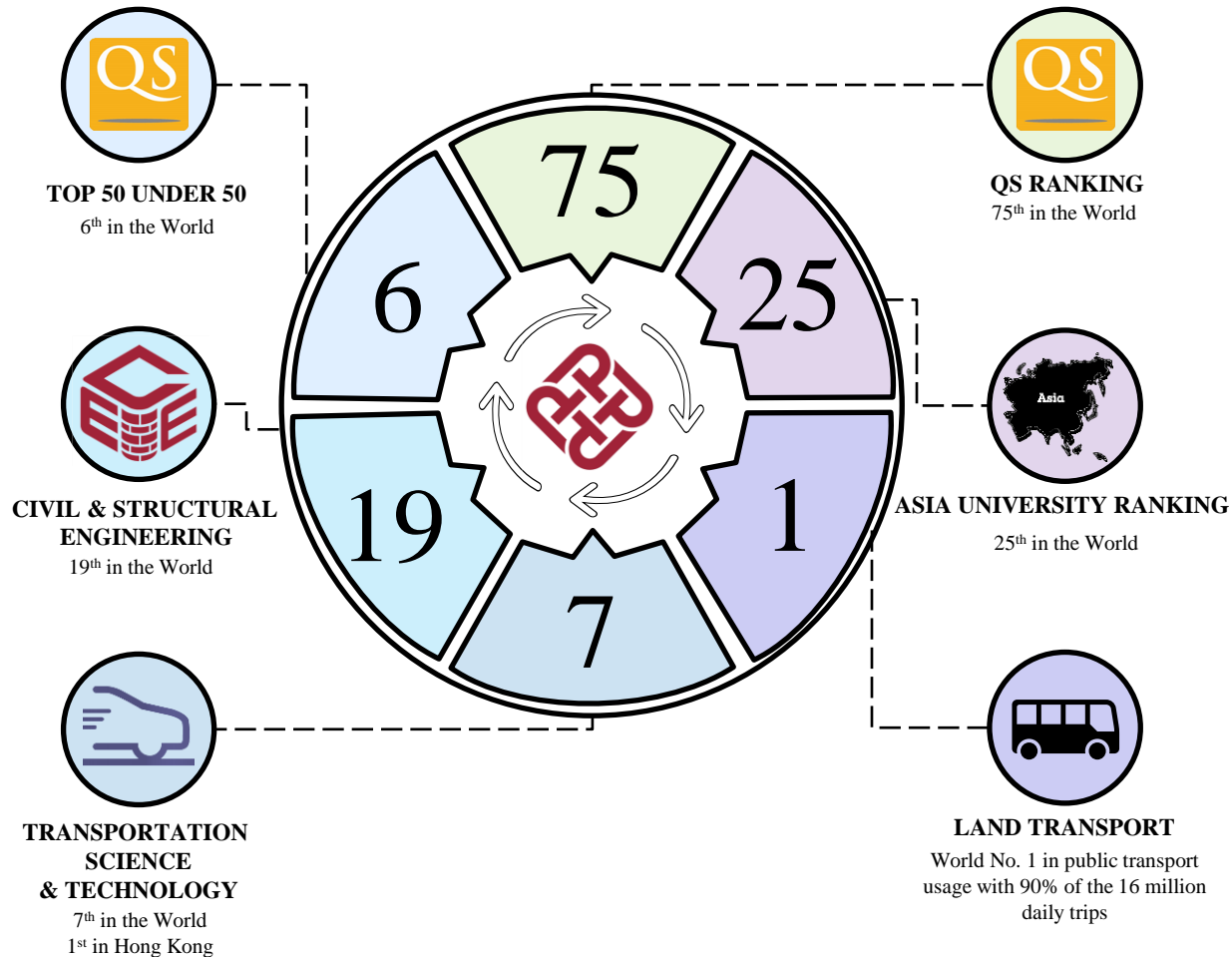


Umer received his B.S. in Civil Engineering from National University of Science and Technology, **Pakistan**, and M.S. also in Civil Engineering from King Fahd University of Petroleum and Minerals, **Saudi Arabia**.

Awarded a 3-year HKPFS fellowship from RGC

*See slide 4 for HKPFS awardee with just a BS degree (normal study period is 4 years) 6

Why Study Transportation Science & Technology at PolyU?



Prof. Anthony Chen's Research (1)

Transportation Network Reliability/ Vulnerability Analysis

Transportation Research Part B:
Methodological

Volume 36, Issue 3, March 2002, Pages 225–252



Capacity reliability of a road network: an assessment methodology and numerical results

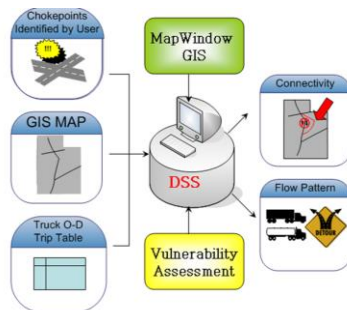
Anthony Chen^a, , Hai Yang^b, Hong K. Lo^b, Wilson H. Tang^b

^a Department of Civil and Environmental Engineering, Utah State University, Logan, UT 84322-4100, USA

^a Department of Civil Engineering, The Hong Kong University of Science & Technology, Clear Water Bay, Kowloon, Hong Kong, People's Republic of China

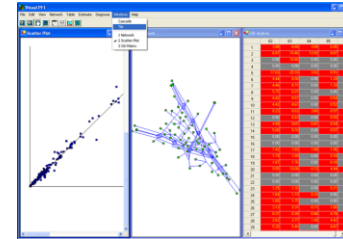
One of the top 50 most cited papers published in the Transportation Research Series

<https://www.sciencedirect.com/science/article/pii/S0965856418315386>

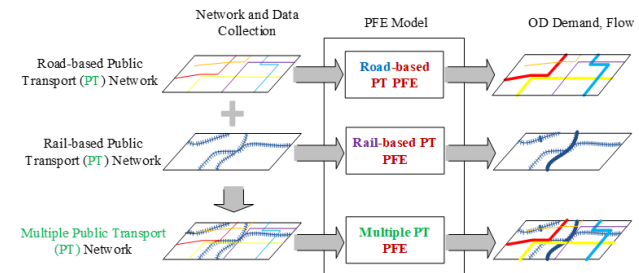


Decision support systems for transportation network vulnerability analysis

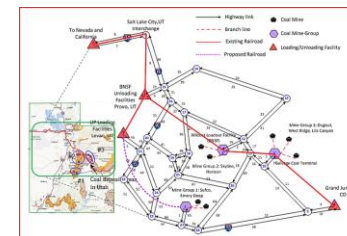
Path Flow Estimator with Applications



Passenger demand forecast



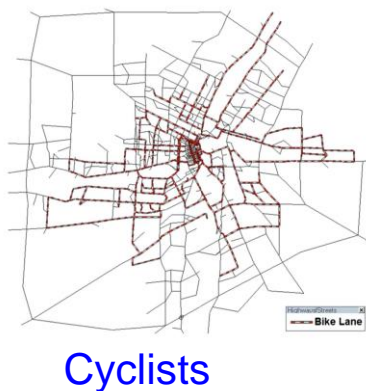
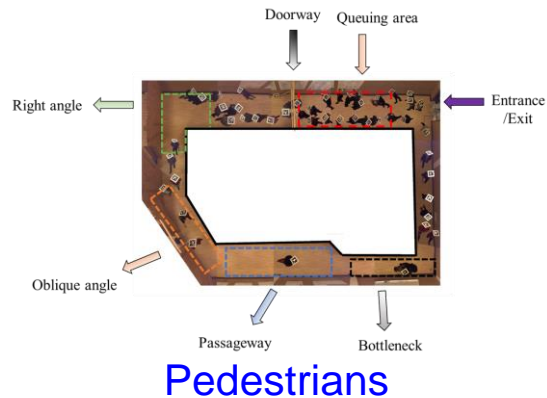
Public transport forecast



Freight demand forecast

Prof. Anthony Chen's Research (2)

Active Transportation



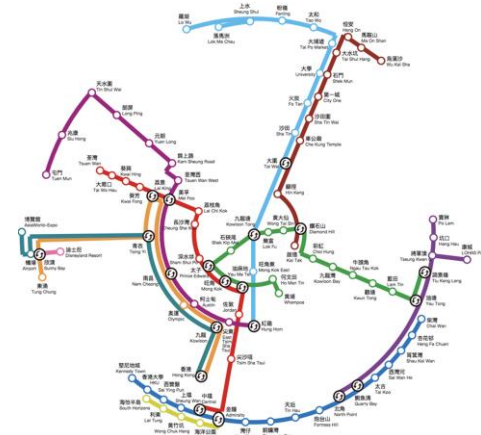
JTE Best Papers

Two-Stage Bicycle Traffic Assignment Model

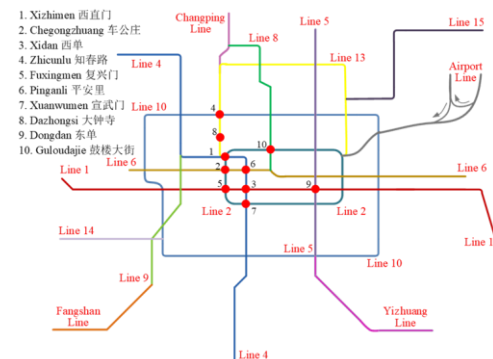
Authors: **Seungkyu Ryu**, Ajou Univ., Korea; **Anthony Chen**, Hong Kong Polytechnic Univ., Hong Kong (corresponding author); **Jacqueline Su**, Univ. of California Los Angeles, CA; **Keechoo Choi**, Ajou Univ., Korea

<https://ascelibrary.org/doi/abs/10.1061/JTEPBS.0000108>

Railway Transportation



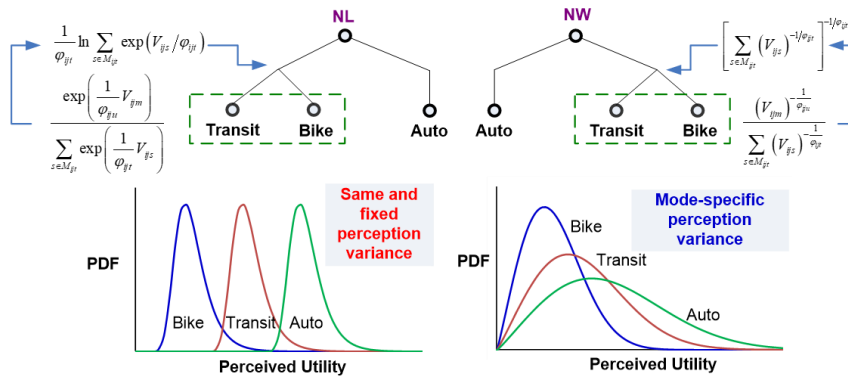
Automated map drawing tools



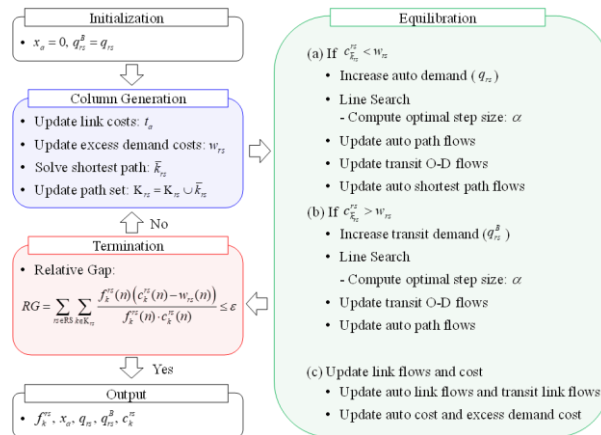
Urban rail network analyses

Prof. Anthony Chen's Research (3)

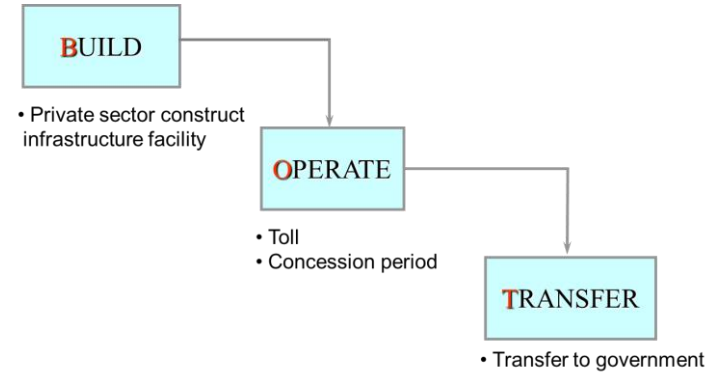
Network Modeling with Discrete Choice Civil Infrastructure Problems



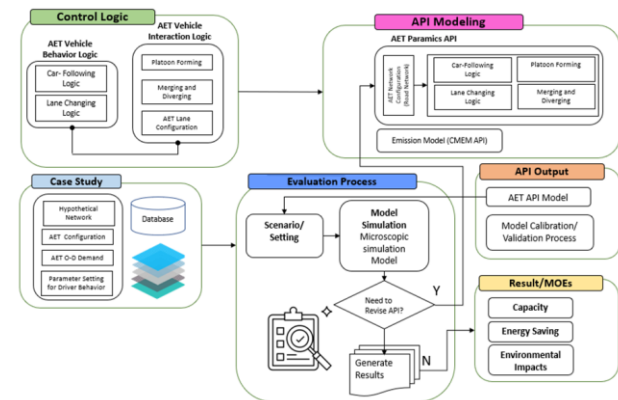
Weibit-based Network Modeling



Traffic Assignment Algorithms



Build-Operate-Transfer (BOT) Infrastructure Projects



Automated Electric Transportation

Questions

For enquiry, please contact Prof. Anthony Chen at PolyU

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