

## CV of Dr. Ji Chen

### 1. Academic Qualification

- PhD (2001), University of Illinois at Urbana-Champaign (UIUC), USA
- MEng (1996), Tsinghua University, Beijing, China
- BEng (1993), Tsinghua University, Beijing, China

### 2. Positions Held (Chronological Order)

- Associate Professor, Department of Civil Engineering, The University of Hong Kong, Hong Kong, China (9/2013-present)
- Assistant Professor, Department of Civil Engineering, The University of Hong Kong, Hong Kong, China (9/2004-9/2013)
- Postdoctoral Research Associate, Scripps Institution of Oceanography, University of California, San Diego, California, USA (11/2001-9/2004)
- Research Assistant, Department of Civil and Environmental Engineering, The University of Illinois at Urbana-Champaign, Illinois, USA (08/1996-10/2001)

### 3. Research Areas Related to Ocean Science, Technology and/or Policy

- Dr. Chen's research is focused on water resources, climate change and urbanization effects, application remote sensing to hydrology, terrestrial hydrologic processes integrated watershed processes (water, sediment, and water pollutants). Currently, he also studies the influences of anthropogenic activities on freshwater discharge from the Pearl River Basin to the Pearl River Estuary and estuarine salinity.

### 4. Funded Research Projects as Principal Investigator (PI), Co-PI or Co-Investigator (Co-I) over the Past 5 Years (Maximum 5 Projects):

- Key technologies in the utilization of cloud water resources (as PI), RMB¥ 3,000,000 funded by National Natural Science Foundation of China (Jan 2018 – Dec/2021)
- Diagnosis and Prognosis of Intensifying Eutrophication, Hypoxia and the Ecosystem Consequences around Hong Kong Waters: Coupled Physical-biogeochemical-pollution Studies (as Co-I), HK\$ 923,333 funded by Research Grants Council, Hong Kong (Jan 2017 – Dec/2021)
- Impact of suspended sediment, turbidity and streamflow conditions on river biodiversity in the Lai Chi Wo catchment in Hong Kong (as PI), HK\$1,315,600 funded by Environment and Conservation Fund, Hong Kong (Mar/2016 – Feb/2018)
- Study on impacts of climate change on the water resources of Hong Kong (as PI), HK\$1,200,000, Water Supply Department, Hong Kong (Feb/2014 – Jun/2016)

## 5. Five Key Publications over the Past 5 Years (\*Corresponding author)

- Shi, H., Chen, J.\*, Liu, S., and Sivakumar, B. (2019) The Role of Large Dams in Promoting Economic Development under the Pressure of Population Growth. *Sustainability*, 11(10), 2965
- Xu, Q., Chen, J.\*, Peart, M.R., Ng, C.N., Hau, B.C., and Law, W.W. (2018) Exploration of severities of rainfall and runoff extremes in ungauged catchments: A case study of Lai Chi Wo in Hong Kong, China. *Science of The Total Environment*, 634, 640-649
- Shi, H., Chen, J.\*, Wang, K., and Niu, J. (2018). A new method and a new index for identifying socioeconomic drought events under climate change: A case study of the East River basin in China. *Science of The Total Environment*, 616, 363-375
- Niu, J., Chen, J.\*, Wang, K., and Sivakumar, B. (2017) Multi-scale streamflow variability responses to precipitation over the headwater catchments in southern China, *Journal of Hydrology*, 551: 14-28
- Chen, J.\*, Shi, H., Sivakumar, B. and Peart, M.R. (2016) Population, water, food, energy and dams, *Renewable and Sustainable Energy Reviews*, 56, 18-28

## 6. Awards and Recognition

- Council Member, Asia Oceania Geosciences Society, June 2018 to June 2020
- President, Hydrologic Sciences (HS) Section, Asia Oceania Geosciences Society, June 2018 to June 2020
- Chairman, International Association for Hydro-Environment Engineering and Research (IAHR) - Hong Kong Chapter, August 2019 to August 2021
- Associate Editor for 4 SCI journals:
  - *Water Resources Research* (Oct 2011-Dec 2015)
  - *Stochastic Environmental Research and Risk Assessment* (Oct 2013-)
  - *Journal of Hydro-Environment Research* (Oct 2014-)
  - *Journal of Hydrology* (July 2018 -)
- Guest Editor for *Advances in Meteorology*, Special Issue: Statistical Modeling of Hydroclimatological Processes (2016)
- Editor: *Advances in Geosciences, Hydrology Volume* (2009-2011)
- Supervised 9 PhD graduates and 3 Postdoctoral fellows
- Conference Session Chair for international conferences, including AOGS annual meetings and AGU fall meetings (e.g., HS21 AOGS2019, Singapore; HS03, HS17, HS21, HS23, HS32, AOGS2018, Hawaii, USA; HS01, HS08, HS16, HS21, HS23, AOGS2017, Singapore; HS17, AOGS2012-WPGM, Singapore; HS15, AOGS2011, Taipei; HS09,

AOGS2010, India; H22A, WPGM2006, Beijing, China; H42A, AGU Fall Meeting, USA, 2003)

- Peer reviewer: WRR, JH, AWR, JGR, JHM, BAMS, GRL, AAS, NH, JHER
- Stout WRR Award, UIUC, USA, 2001
- Ph.D. Dissertation Completion Fellowship, University of Illinois, 2000-2001
- Outstanding Student Paper Award, AGU, 1999