Personal data

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Higher education qualification

2002 - 2005	M.S. in Meteorology, School of Physics, Peking University, Beijing, China. Major: Climatology - East Asia summer monsoon and climate change of China. Supervisor: Prof. Weihong Qian.
2002	B.S. majored in dynamic meteorology, School of Atmospheric Science, Lanzhou University, Lanzhou, China.

Degree of Doctor

2009 - 2013	Ph.D. (degree earned on March 13th, 2013; defended on February 25th, 2013) at University of Gothenburg, Gothenburg, Sweden. Major: Natural Science, specializing in Physical Geography. Supervisors: Prof. Deliang Chen, Prof. Hans Linderholm, and Prof. Jee-Hoon Jeong. Title of the Ph.D. thesis: 'Observed and simulated changes in extreme precipitation and cold surges in China: 1961-2005'.

Postdoctoral positions

2015 - 2016	Department of Earth Sciences, University of Gothenburg, Gothenburg, Sweden. Worked on regional climate change with a focus of Sweden.
2013 - 2015	Faculty of Earth Systems & Environmental Sciences, Chonnam National University, Gwangju, South Korea. Worked on the impact of changes in the Arctic sea ice on the climate over mid-to-high latitude.

Present position

- Principal research engineer (specialized in climate modelling), Department of Earth Sciences, University of Gothenburg, Gothenburg, Sweden. (research time 50%)

Previous positions and periods of appointment

2017.08 – 2017.09	Visiting researcher in Pennsylvania State University, State College, USA. Focus on data assimilation using WRF.
2007.07 – 2009.02	Visiting scholar in University of Gothenburg, Gothenburg, Sweden. Focus on the link between changes in atmospheric circulation and hydrological cycle and air pollution.
2005.07 – 2007.06	Research assistant in National Climate Center, Beijing, China. Focus on statistical downscaling, and seasonal to decadal climate prediction.

Supervision of undergraduate students

2021	Emma Dahlstedt (main supervisor)
2019	Raquel Flügel (Assistant supervisor)

International commissions of trust

Referee for Climate Dynamics; International Journal of Climatology; Journal of Hydrology; npj Climate and Atmospheric Science; Scientific Reports; Asia-Pacific Journal of Atmospheric Sciences; Polar Science; Cold Regions Science and Technology; Remote Sensing; Atmosphere; Water; Sustainability

Guest editor for Remote Sensing and Atmosphere (2021)

Member of the Organizing Committee of the 4th Youth Scientists Forum- 2020 initiated by China Society on Tibetan Plateau (CSTP)

Member of the Organizing Committee of the International Conference on Regional Climate 2019 (ICRC-CORDEX 2019)

Publications and citation (full publication list can be found at http://rcg.gvc.gu.se/oth/)

40 peer-reviewed articles, 2 reports. Total citations=1028, H-index=17, i10-index=20; Total citations=815, H-index=15, i10-index=20 since 2016 (according to Google Scholar accessed 2021-09-07, verified). A few relevant examples follow:

1) Fang, K., Q. Yao, Z. Guo, B. Zheng, J. Du, F. Qi, P. Yan, J. Li, **T. Ou**, J. Liu, M. He, V. Trouet, 2021: ENSO modulates wildfire activity in China. ***Nat Commun*** 12, 1764. DOI: 10.1038/s41467-021-21988-6. (Cited by: 4)
2) Lai, H.-W., H. W. Chen, J. Kukulies, **T. Ou**, D. Chen, 2021: Regionalization of seasonal precipitation over the Tibetan Plateau and associated large-scale atmospheric systems. ***Journal of Climate***. DOI: 10.1175/JCLI-D-20-0521.1. (Cited by: 4)
3) **Ou, T.,** D. Chen, X. Chen, C. Lin, K. Yang, H.-W. Lai, and F. Zhang, 2020: Simulation of summer precipitation diurnal cycles over the Tibetan Plateau at the gray-zone grid spacing for cumulus parameterization. ***Climate Dynamics***, DOI: 10.1007/s00382-020-05181-x. (Cited by: 24)
4) Lin, C., D. Chen, K. Yang, **T. Ou**, 2018: Impact of model resolution on simulating the water vapor transport through the Himalayas: implication for models' wet bias over the Tibetan Plateau. ***Climate Dynamics***, 51: 3195, https://doi.org/10.1007/s00382-018-4074-x. (Cited by: 57)
5) Su, F., L. Zhang, **T. Ou**, D. Chen, T. Yao, and K. Tong, Y. Qi, 2016: Hydrological response to future climate changes for the major upstream river basins in the Tibetan Plateau. ***Global and Planetary Change***, 136, 82-95, https://doi.org/10.1016/j.gloplacha.2015.10.012. (Cited by: 119)
6) **Ou, T.**, D. Chen, J.-H. Jeong, H. W. Linderholm, T. Zhou, 2015: Changes in winter cold surges over Southeast China: 1961 to 2012. ***Asia-Pacific Journal of Atmospheric Sciences***, 51, 29-37, https://doi.org/10.1007/s13143-014-0057-y. (Cited by: 18)
7) **Ou, T.**, D. Chen, H. W. Linderholm and J.-H. Jeong, 2013: Evaluation of global climate models in simulating extreme precipitation in China. ***Tellus A***, 65, 19799, https://doi.org/10.3402/tellusa.v65i0.19799. (Cited by: 65)
8) Jeong, J.-H., **T. Ou**, H. W. Linderholm, B.-M. Kim, S.-J. Kim, J.-S. Kug, and D. Chen, 2011: Recent recovery of the Siberian High intensity. ***J. Geophys. Res.***, 116, D23102, https://doi.org/10.1029/2011JD015904. (Cited by: 136)
9) Linderholm, H. W., **T. Ou**, J.-H. Jeong, C. K. Folland, D. Gong, H. Liu, Y. Liu, and D. Chen, 2011: Interannual teleconnections between the summer North Atlantic Oscillation and the East Asian summer monsoon. ***J. Geophys. Res.***, 116, D13107, https://doi.org/10.1029/2010JD015235. (Cited by: 95)
10) **Ou, T.** and WH Qian, 2006. Vegetation variations along the monsoon boundary zone in East Asia. ***Chinese Journal of Geophysics***, 49, 698-705, https://doi.org/10.1002/cjg2.876. (Cited by: 28)

Invited talks

- "**Hydrological extreme changes in the 21st century for five headwater river basins in the Tibetan Plateau**", the Third Pole Science Summit (TPSS), 10-12 July 2017, Kunming, China.
- "**Interdecadal changes in autumn snow cover over Eurasia: 1967 to 2012**", 5 May, 2014, ESS seminar, University of Gothenburg, Gothenburg, Sweden.