

# Liyuan He

Ph.D. Candidate

Joint Doctoral Program of Ecology

San Diego State University & University of California, Davis

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## EDUCATION

2017.8-current	PhD Candidate	San Diego State University (SDSU) & University of California at Davis (UCD)
2014.9-2017.6	Master of Science in Ecology	Institute of Geographic Sciences and Natural Resources Research (IGSNRR), CAS
2010.9-2014.7	Bachelor of Agronomy in Forestry	Northeast Forestry University (NEFU)

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## PROFESSIONAL EXPERIENCE

2019.6-2019.8	Research assistant, SDSU
2018.6-2018.8	Research assistant, SDSU
2014.9-2017.6	Research assistant, IGSNRR, CAS

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## PUBLICATION

1. Ma, J., H. Duan, **L. He**, M. Tiffany, Z. Cao, T. Qi, M. Shen, T. Biggs, and X. Xu. 2020. Spatiotemporal pattern of gypsum blooms in the Salton Sea, California, during 2000-2018. *International Journal of Applied Earth Observation and Geoinformation* 89:102090.
2. Gao, L., B. Tao, Y. Miao, L. Zhang, X. Song, W. Ren, **L. He**, and X. Xu. 2019. A Global Data Set for Economic Losses of Extreme Hydrological Events During 1960-2014. *Water Resources Research* 55:5165-5175.
3. Wang, Y., F. Yuan, F. Yuan, B. Gu, M. S. Hahn, M. S. Torn, D. M. Ricciuto, J. Kumar, **L. He**, D. Zona, D. A. Lipson, R. Wagner, W. C. Oechel, S. D. Wullschleger, P. E. Thornton, and X. Xu. 2019. Mechanistic Modeling of Microtopographic Impacts on CO<sub>2</sub> and CH<sub>4</sub> Fluxes in an Alaskan Tundra Ecosystem Using the CLM-Microbe Model. *Journal of Advances in Modeling Earth Systems* 11:4288-4304.
4. **He, L.**, Z. Hu, Q. Guo, S. Li, W. Bai, and L. Li. 2015. Influence of nitrogen and phosphorus addition on the aboveground biomass in Inner Mongolia temperate steppe, China. *Chinese Journal of Applied Ecology* 26:2291-2297. (In Chinese)

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## HONORS & AWARDS

2019.8	Travel funding to attend CESM (Community Earth System Model) Tutorial Workshop, National Center for Atmospheric Research
2016.12	Second Class Scholarship for Outstanding Students, University of Chinese Academy of Sciences (UCAS)
2015.12	Second Class Scholarship for Outstanding Students, UCAS
2014.12	First Class Scholarship for Outstanding Students, UCAS

- 2014.7 Outstanding Graduate Awards, NEFU
- 2013.12 Certification of Student Research Training Program, NEFU
- 2013.7 First Class Scholarship for Outstanding Students, NEFU
- 2013.7 First Class Scholarship for Outstanding Students, NEFU
- 2013.6 Outstanding Students in Summer Program, Sun Yat-sen University
- 2012.12 Outstanding Students in Summer Program, Institute of Atmospheric Physics, CAS
- 2012.12 National Scholarship, Ministry of Education of China
- 2012.7 First Class Scholarship for Outstanding Students, NEFU
- 2011.12 First Class Scholarship for Outstanding Students, NEFU
- 2011.12 National Scholarship for Encouragement, Ministry of Education of China
- 2011.7 Second Class Scholarship for Outstanding Students, NEFU
- 2010.12 First Class Scholarship for Outstanding Students, NEFU

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## **PRESENTATION**

1. **He Liyuan.** Difference in relationship between vegetation, soil C:N ratio and productivity at site and regional scales. 14<sup>th</sup> Ecology Conference of China. September 23-25, 2015. Chengdu, China.

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## **PARTICIPATED PROJECTS**

1. The relationship of terrestrial ecosystem carbon, nitrogen, and water flux and the environmental mechanisms in China (PI: Dr. Zhongmin Hu, IGSNRR, CAS)
2. Response of grassland ecosystem water use efficiency to altered precipitation regime (PI: Dr. Zhongmin Hu, IGSNRR, CAS)
3. Allopathy and its mechanisms of extract solution of *Pinus koraiensis* on *Betula platyphylla* (PI: Dr. Lixin Chen, NEFU)

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## **OUTREACH & VOLUNTEER ACTIVITIES**

1. Volunteer, Skype a Scientist, Video Demonstration Online (<https://www.skypeascientist.com>)
  2. Volunteer, Graduate Group of Ecology Exhibition on Picnic Day, April 13, 2019, UCD
  3. Volunteer, Demonstration of How to Make Cheese at Smythe Academy Science night, October 15, 2018, Sacramento primary school
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