

GUO Xianda

E-Mail: xguo@student.ethz.ch | Tel: +41 076 747 62 17

EDUCATION

ETH ZÜRICH	Zürich, Switzerland
M.Sc. in Environmental Sciences (major in Ecology and Evolution)	09.2016 – present
Beijing Normal University	Beijing, China
B.Sc. in Environmental Sciences	09.2012 – 07.2016
<ul style="list-style-type: none">♦ Double degree in Chinese Language and Literature♦ First-Class Scholarship (top 10%), 3 continuous years	

SCIENTIFIC EXPERIENCE

Master thesis ETH Zurich & ZHdK	05.2018 – present
<i>Soil Ecoacoustics and microclimate dynamics (transdisciplinary research)</i>	
<ul style="list-style-type: none">♦ Developing a R tool to manipulate high numbers of audio file♦ Representing audio files visually and acoustically♦ Analysing temporal and spatial dynamics of sounds in the soil and their relationships to microclimate	
Research Assistant ETH Zurich	10.2017 – 02.2018
<i>Experimental evolution on the predation of <i>Myxobacteria xanthus</i></i>	
<ul style="list-style-type: none">♦ Experimented and developed protocol on microbiology♦ Analysed and represented experimental results	
Term Paper ETH Zurich	10.2016 – 05.2017
<i>Title: Imperfect Vaccines Could Induce Virulence Evolution</i>	
<ul style="list-style-type: none">♦ Reviewed the dynamics of the imperfect-vaccines hypothesis, its reception and empirical evidences♦ Wrote, revised and presented an 18-page term paper; reviewed the papers of two colleagues'	
Research Assistant Beijing Normal University & Yellow River Estuary	03.2015 – 06.2016
<i>Mechanism and simulation of reclamations' influence on wetland ecological process</i>	
<ul style="list-style-type: none">♦ Assisted in transplanting experiments of halophytes and measured plant growth♦ Learned meta-analysis to detect the growth response of <i>Spartina alterniflora</i> to waterlogging	
Research Assistant Beijing Normal University & Qinghai-Tibet Plateau	07.2014 – 03.2015
<i>Technology of comprehensive protection and sustainable utilization for alpine grassland biodiversity</i>	
<ul style="list-style-type: none">♦ Tested the effectiveness and accuracy of four vegetation sampling techniques in alpine landscapes♦ Assisted in constructing warming experiments	
Field Work Beijing Normal University & Mount Songshan	06.2014
<i>Decomposition characteristics of litter under different accumulation methods</i>	
<ul style="list-style-type: none">♦ Dug soil profiles, collected defoliation samples and soil samples according to soil layers♦ Conducted quantitative analytical experiments: element analysis and ash determination	

ARTISTIC EXPERIENCE

Semester course University of Zurich	09.2017 – 12.2017
<i>The Art of Scientific Visualization</i>	
<ul style="list-style-type: none">♦ Learned approaches in visual arts♦ Finished a public outreach project and a self-defined project	
Summer School University of the Arts London	07.2017
<i>Graphic and Media Design: The viewpoint of city</i>	
<ul style="list-style-type: none">♦ Participated workshops of graphic design intensively, including sound arts♦ Developed a personal graphic project with an analogy between virus and spaceships	

WORK EXPERIENCE

Writer, part-time | The Art & Science Research Centre, Beijing 2018.07 – present

- ♦ Writing reviews or articles on people and concepts in the transdisciplinary field of art and science

Mitacs Globalink Research Intern | The University of British Columbia, Vancouver 06 – 09.2015

Using tree rings to understand fire regimes and effects of global environmental change

- ♦ Learned basic dendrochronology skills

Local NGO Intern | Global Environmental Institute, Beijing 01 – 05.2015

- ♦ Expedited job logging with ArcGIS: organized and recorded working data on maps

ADDITIONAL

Design Software R, Adobe Photoshop, Illustrator, GIMP, Processing, P5.js

Language Chinese (mother language), English (proficient), German (basic)

Hobby Thinking, Painting, Reading, Hiking