

## Minjung Go

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### Bio

My primary research interest lies in the field of natural aspects of nutrient cycle in global scale. I am now trying to correct the underestimated values of silica concentration in the natural water analyzed by colorimeter with possibility of freezing for my Master's degree.

My future research plan is to investigate the special feature of nutrient cycle in natural system, especially the carbon cycle, expected to be built on the foundation of several experiences I had during my Master's course. I have a particular expertise and interest in revealing the unknown things in the field of biogeochemistry with several important analyzing skills I have.

### Education

Seoul National University **Seoul, Republic of Korea**

Master of City Planning (Biogeochemistry) September 2015 – Present  
Thesis: "Correction of Dissolved Silica Concentration Measured by Colorimeter in Stream" (expected February 2018)  
(Not officially confirmed)

**Supervisor: Professor Neung-Hwan Oh**

Seoul National University **Seoul, Republic of Korea**

B.S. in Civil & Environmental Engineering March 2010 – August 2015  
Thesis: "Efficient Tactics for Providing Drinking Water Properly in Southern-East Asia Throughout SDGs"

### Scholarships/Awards

Best Poster Presentation Award, Korean Ecology and Environmental Science Research Council February 2017

3<sup>rd</sup> Place Award, Contest for Urban & Environmental Policy Development in Ansan City, Gyeong-gi Province, South Korea June 2016

Merit-based Scholarship, Civil & Environmental Engineering Department, Seoul National University December 2014

Honored, Global Engineer Certificate, Global Education Center for Engineers, Seoul National University March 2013 - December 2014

3<sup>rd</sup> Place Award, 3<sup>rd</sup> Contest for Introductory UCC for Engineering College, Seoul National University October 2010

The National Scholarship for Science and Engineering, Korea Student Aid Foundation March 2010 - August 2011

Scholarship for Excellent University Freshmen, Woopa Scholarship Foundation February 2010

## **Research Experience**

### **Seoul National University**

Master's Researcher

- Analyzed weekly stream water samples from two different study sites with Ion chromatography, UV-vis, fluorescence, and other chemical tools
- Studied the relationship between number of hikers and changes of soil respiration rate in an urban mountain forest
- Investigated the anthropogenic effect of urbanization on the spatial difference of pCO<sub>2</sub> in rural-urban stream
- Computed rough number of CO<sub>2</sub> evasion rate from 5 main river systems of South Korea, and revising NEE based on those data
- Studied about the difference of chemical weathering flux(Carbonate & silicate) in small-scaled stream surrounded with different environmental background
- Corrected underestimated values of concentration and flux of silica (silicate acid) in boreal/arctic rivers measured by colorimeter

### **Seoul, Republic of Korea**

September 2015 – Present

### **Seoul National University**

Undergraduate Researcher

- Explored effective tactics for providing drinking water properly in Southeast Asia throughout SDGs
- Simulated redevelopment of stream channels (waterway) in Gwan-ak campus of Seoul National University

### **Seoul, Republic of Korea**

March 2010 – August 2015

## **Leadership Experience**

### **Seoul National University & Gwanak-gu office**

*Teaching Assistant* to Neung-Hwan Oh in "Gwanak Public Environmental Academy"

Collaborated on curriculum and final report development, met with students upon request, and organized schedules for special lectures delivered by several experts in environmental field

### **Seoul, Republic of Korea**

September 2017 - Present

### **Peking University**

*Conference Chairperson* of "SNU-PKU Conference Seminar on Climate Change"

Hosted 1-day conference including professors' lectures and students' presentations, worked as an official interpreter, and arranged schedule for several activities held in Peking University Shenzhen campus.

### **ShenZhen, People's Republic of China**

January 2017

### **Seoul National University**

*Teaching Assistant* to Eubong Lee in "Environmental Law".

### **Seoul, Republic of Korea**

March 2016- August 2016

Collaborated on curriculum and final report development, met with students upon request, and organized all debates and presentations held in class.

**Green Technology Center**

*Researcher*

Provided editorial support for a thesis and summary at the Green Technology Conference & Technology Seminar

**Seoul, Republic of Korea**

October 2015

**Language Education Institute, Seoul National University**

*Tutor*

Held additional tutoring sessions for foreign students learning Korean

**Seoul, Republic of Korea**

June 2011 – August 2011

**Engineering College, Seoul National University**

*Tutor*

Held tutoring sessions for foreign students twice a month, providing study materials translated into English for major courses in the Engineering College

**Seoul, Republic of Korea**

March 2011 – February 2012

**Student Catholic Choir in Seoul National University, Archdiocese of Seoul, Roman Catholic Church**

*Conductor*

Obtained the highest responsibility in managing every single musical performance held in Catholic Mass at Seoul National University, especially organizing special performance twice a year (Christmas, Easter)

**Seoul, Republic of Korea**

March 2012-February 2017

**School Star**

*Tutor*

Tutored disabled children and teenagers in an alternative school in mathematics

**Seoul, Republic of Korea**

September 2010 -February 2011

**Skills**

*Language*

Korean, English, Chinese Character

*Computer*

Matlab, R, QGIS, ArcGIS, Sketch Up, Photoshop, Autocad

*Lab*

Ion Chromatography, pCO<sub>2</sub> sensor, Infrared gas analyzer with Soil chamber, SSM, EA, Fluorescence Spectrometer, UV-Vis Spectrophotometer, Turbidity sensor, Colorimeter

**Presentations**

Jiyeon Tcha, Lee Seungcheol, **Minjung Go**, Eun-Ju Lee and Neung-Hwan Oh, "Amount of Dry Deposition and Optical Property of Organic Carbon in the Atmosphere by Rainfall", Korean Ecology and Environmental Science Research Council, Seoul, South Korea, Aug 2017.

Seung-Cheol Lee, Eun-Ju Lee, Ji-Yeon Cha, **Minjung Go** and Neung-Hwan Oh, "The Role of Landscape Gradients on Dynamics of Stream Carbon", EGU General Assembly 2017.

Lee Seungcheol, **Minjung Go**, Eun-Ju Lee, Jiyeon Tcha and Neung-Hwan Oh, "Comparing Biogeochemical Properties and Dissolved Carbon Concentration in Stream at Forest-Agricultural Land Gradient and Forest-Urban Gradient", Korean Ecology and Environmental Science Research Council, Seoul, South Korea, Feb 2017.

**Minjung Go**, "Effect of Urbanization on the Spatial Pattern of pCO<sub>2</sub> in Dorim-chun(stream), Seoul, South Korea", SNU-PKU Conference Seminar on Climate Change, Shenzhen, People's Republic of China, Jan 2017.

Lee Seungcheol, **Minjung Go**, Jiyeon Tcha and Neung-Hwan Oh, "The Role of Hydrology on Stream Carbon Species across a Forest-Urban Landscape Gradient, AGU, Dec 2016.

**Minjung Go**, et al., "Banweol, The Green Factory: Proposal of Developing Model of Sustainable Industrial Complex in Ansan city", Conference for Urban & Environmental Policy Development in Ansan City, Ansan, South Korea, Jun 2016.

Soongbong Lee, **Minjung Go** and Hyeon-ho Jang, "Prediction Methodology of Greenhouse Gas On-Line Monitoring on Freeway", Spring Conference of Korean Society of Transportation, Jeju, South Korea, Feb 2016.