

# HANNA CHO

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## OBJECTIVE

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Applying to Doctoral Programs in Chemistry for the Fall of 2021

## EDUCATION

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Mar.2017-present	<b><i>Seoul National University of Science and Technology</i></b> Master of Science, Department of Fine Chemistry Advisor: Cheal Kim, Professor of Fine Chemistry Degree expected: Feb. 2021 GPA: 4.19/ 4.5
Jan.2019-Dec.2019	<b><i>University of Michigan, Ann Arbor</i></b> Visiting Scholar, Department of Biochemistry Advisor: Uhn-soo Cho, Professor of Biological Chemistry
Mar.2013-Feb.2017	<b><i>Seoul National University of Science and Technology</i></b> Bachelor of Science, Department of Fine Chemistry GPA: 3.75/ 4.5

## RESEARCH EXPERIENCE

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Mar.2020-Jun.2020	<b><i>Research Assistant</i></b> , Marine Policy, Jeju Research Institute, Jeju, South Korea <ul style="list-style-type: none"><li>Update marine policies about pollution and pollution control worldwide</li></ul>
Jan.2019-Dec.2020	<b><i>Research Assistant</i></b> , Biochemistry, University of Michigan, Ann Arbor. Supervisor: Prof. Uhn-soo Cho <ul style="list-style-type: none"><li>Surface modification of graphene oxide Cryo-EM grids</li><li>Protein Preparation for structural study of histone complex</li></ul>
Mar.2016-Dec.2019	<b><i>Research Assistant</i></b> , Bioinorganic chemistry, Seoul National University of Science and Technology, Supervisor: Prof. Cheal Kim <ul style="list-style-type: none"><li>Develop fluorescence and colorimetric probes that operate in biological systems based on lock-and-key binding</li><li>Define sensing mechanism and demonstrate with practical applications</li></ul>

## PUBLICATION

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1. Haeri So, **Hanna Cho**, Hangyul Lee, Minh Cong Tran, Prof. Ki-Tae Kim, Prof. Cheal Kim, "Detection of zinc (II) and hypochlorite by a thiourea-based chemosensor via two emission channels and its application in vivo", *Microchemical Journal*, (2020)
2. **Hanna Cho**, Ju Byeong Chae, Prof. Cheal Kim, "Cinnamaldehyde-Based Chemosensor for Colorimetric Detection of  $\text{Cu}^{2+}$  and  $\text{Hg}^{2+}$  in a Near-Perfect Aqueous Solution", *Chemistry select*, (2019)
3. **Hanna Cho**, Ju Byeong Chae, Prof. Cheal Kim, "A thiophene-based blue-fluorescent emitting chemosensor for detecting indium (III) ion", *Inorganic Chemistry Communications*, (2018)

## HONORS AND AWARDS

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- **Scholarship for Excellence in Scientific Papers** Spring 2019  
Seoul National University of Science and Technology  
Department of Fine Chemistry Fall 2018
- **Scholarship for Highest Academic Honor** Spring 2017  
Seoul National University of Science and Technology,  
Department of Fine Chemistry
- **Award for best poster presented** Spring 2017  
119<sup>th</sup> General Meeting of the Korean Chemical Society
- **Work Scholarship for Tutoring in Advanced English Class** Spring 2016  
Seoul National University of Science and Technology  
Department of Basic Education
- **Scholarship for International Exchange Students** Fall 2015  
Seoul National University of Science and Technology  
Department of Basic Education

## TEACHING EXPERIENCES

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| Aug.2018-Dec.2018 | <b>Teaching Assistant:</b> Inorganic Chemistry Laboratory,<br>Seoul National University of Science and Technology <ul style="list-style-type: none"><li>• Give undergrad students inorganic chemistry pre-lab lectures and supervise their experiments while giving positive feedback</li></ul> |
| Aug.2017-Dec.2017 | <b>Teaching Assistant:</b> General Chemistry Laboratory,<br>Seoul National University of Science and Technology <ul style="list-style-type: none"><li>• Give undergrad students general chemistry pre-lab lectures and supervise their experiments while giving positive feedback</li></ul>     |
| Mar.2016-Jun.2016 | <b>Tutor:</b> Advanced English,<br>Seoul National University of Science and Technology <ul style="list-style-type: none"><li>• Encourage students who were frustrated and help them with writing and speaking</li></ul>   |

## POSTER PRESENTATIONS

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1. Jamin Jung, Sumi Hwang, **Hanna Cho**, Cheal Kim, "A highly selective turn-on chemosensor for  $\text{Zn}^{2+}$  in aqueous media and living cells" *119<sup>th</sup> General Meeting of the Korean Chemical Society*, Kintex center, Goyang, South Korea, April 19-21, 2017
2. Min Seon Kim, **Hanna Cho**, Cheal Kim, "Highly selective and sensitive colorimetric chemosensor for detection of  $\text{Co}^{2+}$  in a near-perfect aqueous solution" *the 253rd ACS National Meeting & Exposition*, San Francisco, LA, United States, April 2-6, 2017
3. **Hanna Cho**, Minuk Yang, Sumi Hwang, Sehoon Kim, Cheal Kim "A novel colorimetric chemosensor for multiple target metal ions  $\text{Fe}^{2+}$ ,  $\text{Co}^{3+}$ , and  $\text{Cu}^{2+}$  in near- perfect aqueous solution: Experimental and theoretical studies" *255th ACS National Meeting & Exposition*, New Orleans, LA, United States, May 18-22, 2018

## ACTIVITY

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**Kendo (Japanese fencing) club, Member**  
Seoul National University of Science and Technology

2016

## REFERENCES

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### **Dr. Cheal Kim**

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