

# HANNA CHO

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## 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
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

## 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 Cry-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>
Aug.2018-Dec.2018	<b><i>Teaching Assistant</i></b> : Inorganic Chemistry Laboratory, 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><i>Teaching Assistant</i></b> : General Chemistry Laboratory, 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><i>Tutor</i></b> : Advanced English, 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>

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

## 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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| <b>Kendo (Japanese fencing) club, Member</b><br>Seoul National University of Science and Technology | 2016 |
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