Boyoung Park

EDUCATION

The University of Texas at Austin, Austin, TX Aug 2011 - May 2016
Ph.D. in Organic Chemistry
- Advisor: Prof. Michael J. Krische
- Research Topic: Transition Metal-Catalyzed Redox-Triggered C–C Couplings of Alcohols via Transfer Hydrogenation.

Ewha Womans University, Seoul, South Korea Sep 2008 - Feb 2010
M.S. in Organic Chemistry
- Advisor: Prof. Sang-gi Lee
- Thesis: Studies on the Catalytic Cyanosilylation of Carbonyl Compounds and Synthesis of Pyrroles and Bicyclic Chiral Aminoalcohols.

Ewha Womans University, Seoul, South Korea Mar 2005 - Aug 2008
B.S. in Chemistry
- Advisor: Prof. Sang-gi Lee

EXPERIENCE

Kyung Hee University, Seoul, South Korea Mar 2018 - present
Assistant Professor in Pharmaceutical Science

Massachusetts Institute Technology, Cambridge, MA Jul 2016 - Jan 2018
Postdoctoral Researcher in Organic Chemistry
- Advisor: Prof. Stephen L. Buchwald

AWARDS & FELLOWSHIPS

Graduate
- Spring 2016 fellowships (May 2016)
- Dorothy B. Banks Fellowship Award (May 2014)
- Best Paper Award from Intelligent Nanobio-Materials (CINBM) (Feb 2010)
- Honor Scholarship (2009–2010)

Undergraduate
- Summa Cum Laude (Aug 2008)
- Full Scholarship from Kwanjeong Education Foundation (2006–2008)
- Honor Scholarship (2005–2008)
- Dean's List (2005–2008)

PUBLICATIONS

9 Park, B. Y.; Pirnot. M. T.; Buchwald. S. L.
Rapid and Efficient Visible Light-Mediated (Hetero)aryl Amination Using Ni(II) Salts and Photoredox Catalysis in Flow
Manuscript in preparation

8 Nguyen, K. D.; Park, B. Y.; Luong, T.; Sato, H.; Garza, V. J.; Krische, M. J.
Metal-Catalyzed Reductive Coupling of Olefin-Derived Nucleophiles: Reinventing Carbonyl Addition
Science **2016**, *354*, 300.

7 Park, B. Y.; Luong, T.; Sato, H.; Krische, M. J.
Osmium(0) Catalyzed C-C Coupling of Ethylene and α-Olefins with Diols, Ketols or Hydroxy Esters via Transfer Hydrogenation
J. Org. Chem. **2016***, 81*, 8585.

6 Park, B. Y.; Luong, T.; Sato, H.; Krische, M. J.
A Metallacycle Fragmentation Strategy for Vinyl Transfer from Enol Carboxylates to Secondary Alcohol C–H Bonds via Osmium- or Ruthenium-Catalyzed Transfer Hydrogenation
J. Am. Chem. Soc. **2015**, *137*, 7652.

5 Park, B. Y.; Nguyen, K. D.; Chaulagain, M. R.; Komanduri, V.; Krische, M. J.
Alkynes as Allylmetal Equivalents in Redox-Triggered C–C Couplings to Primary Alcohols: (*Z*)-Homoallylic Alcohols via Ruthenium-Catalyzed Propargyl C–H Oxidative Addition
J. Am. Chem. Soc. **2014**, *136*, 11902.

4 Park, B. Y.; Montgomery, T. P.; Garza, V. J.; Krische, M. J.
Ruthenium Catalyzed Hydrohydroxyalkylation of Isoprene with Heteroaromatic Secondary Alcohols: Isolation and Reversible Formation of the Putative Metallacycle Intermediate
J. Am. Chem. Soc. **2013**, *135*, 16320.

3 Montgomery, T. P.; Hassan, A.; Park, B. Y.; Krische, M. J.
Enantioselective Conversion of Primary Alcohols to α-*exo*-Methylene-γ-Butyrolactones via Iridium-Catalyzed C–C Bond-Forming Transfer Hydrogenation: 2-(Alkoxycarbonyl)allylation
J. Am. Chem. Soc. **2012**, *134*, 11100.

2 Park, B. Y.; Ryu, K. Y.; Park, J. H.; Lee, S.-g.
A dream combination for catalysis: highly reactive and recyclable scandium(III) triflate-catalyzed cyanosilylations of carbonyl compounds in an ionic liquid
Green Chem. **2009**, *11*, 946.

1 Kim, J. H.; Park, B. Y.; Chen, S.-W.; Lee, S.-g.
In Situ Activation of a Latent Ruthenium–Carbene Complex in Ionic Liquid and Its Application in Ring-Closing Metathesis
Eur. J. Org. Chem. **2009**, *14*, 2239.

PRESENTATIONS

Graduate

- The 249th ACS National Meeting, Denver, CO, USA (Mar 2015)
  Transition Metal-Catalyzed Redox-Triggered C–C Couplings of Alcohols via Transfer Hydrogenation
- The 3rd International Student Conference on Advanced Science and Technology, Seoul, South Korea (Dec 2009)
  A Dream Combination for Catalysis: Highly Reactive and Recyclable Scandium(III) Triflate-Catalyzed Cyanosilylations of Carbonyl Compounds in an Ionic Liquid
- The 104th Korean Chemical Society, Daejeon, South Korea (Oct 2009)
  The Regioselective Tandem Synthesis of *N*–Heterocyclic Compounds by using the Blaise Reaction Intermediate

- The 103th Korean Chemical Society, Seoul, South Korea (Apr 2009)
  Rare-Earth Metal(III) Triflate-Catalyzed Cyanosilylations of Carbonyl Compounds in an Ionic Liquid
- The 103th Korean Chemical Society, Seoul, South Korea (Apr 2009)
  In Situ Activation of a Ru-Carbene Complex in Ionic Liquid and Its Catalytic Activity for Ring-Closing Metathesis
- The 28th Symposium on Heterocyclic Compounds, Chuncheon, South Korea (Mar 2009)
  In Situ Activation of a Latent Ruthenium-Carbene Complex in Ionic Liquid and Its Application in Ring Closing Metathesis
- The 102th Korean Chemical Society, Jeju, South Korea (Oct 2008)
  Olefin RCM in the Ionic Liquid Using a Dormant Ruthenium Catalyst

Undergraduate

- The 17th International Conference on Organic Synthesis, Daejeon, South Korea (Jun 2008)
  Stereo Selective Synthesis of Bicyclic Chiral Aminoalcohols for Asymmetric Catalysis
- The 101th Korean Chemical Society, Seoul, South Korea (Apr 2008)
  Stereo Selective Synthesis of Bicyclic Chiral Aminoalcohols for Asymmetric Catalysis
- Ewha Nanobio 3rd International Symposium, Seoul, South Korea (Jan 2008)
  Stereo Selective Synthesis of Bicyclic Chiral Amine for Chiral Organocatalyst

TEACHING & MENTORING EXPERIENCE

- Undergraduate Organic Chemistry Lecture (2 semesters)
  Writing exams, Marking exams, Leading discussions over materials
- Undergraduate Organic Chemistry Laboratory (2 semesters)
  Managing Undergraduates in a laboratory setting
- Undergraduate General Chemistry Laboratory (1 semester)
  Managing Undergraduates in a laboratory setting
- Advised two undergraduate research assistant
  Teaching safe laboratory procedures, advanced synthesis protocols and compound characterization (2 year)