

## CURRICULUM VITAE

### Jason Scott Kingsbury

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**PERSONAL:** Birth date – September 15, 1975 (Syracuse, NY)

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### EDUCATION

<u>Level</u>	<u>Institution</u>	<u>Year</u>	<u>Field of Study</u>
B.A.	Hamilton College	1997	Natural Products Isolation
Ph.D.	Boston College	2003	Organometallic Chem., Catalysis
Postdoc	Harvard University	2006	Total Synthesis and Methodology

### APPOINTMENTS

- 2019–present • Associate Professor of Chemistry (with tenure), California Lutheran University.
- 2013–2019 • Assistant Professor, Department of Chemistry, California Lutheran University;  
• Faculty in the *ALLIES in STEM* Academy for helping underrepresented groups matriculate in the College of Arts & Sciences and begin career paths in STEM.
- 2012–2013 • Visiting Assistant Professor of Organic Chemistry, Department of Chemistry, Pomona College, Claremont, CA.
- 2006–2012 • Assistant Professor, Chemistry Department, Boston College, Chestnut Hill, MA.
- 2003–2006 • National Institutes of Health Postdoctoral Fellow (Advisor: E. J. Corey)  
Dept. of Chemistry and Chemical Biology, Harvard University, Cambridge, MA.
- 1998–2001 • National Science Foundation Predoctoral Fellow (Advisor: Amir H. Hoveyda)  
Department of Chemistry, Boston College, Chestnut Hill, MA.
- 1997–1998 • U.S. Dept. of Education GAANN (*Government Assistance in Areas of National Need*)  
Fellow, Department of Chemistry, Boston College, Chestnut Hill, MA.

### AWARDS AND HONORS

- 2018 Diversity Professor of the Year nominee; nomination by Cal Lutheran students
- 2006 Amgen New Faculty Award
- 2003–2005 Ruth Kirschstein National Research Service Award (NIH postdoctoral fellowship)
- 2002 Boston College Outstanding Graduate Student Award
- 1998–2001 National Science Foundation Graduate Research Fellowship Award (NSF-GRFP)
- 1997 Salutatorian of the Class of 1997, Hamilton College Commencement Ceremony
- 1996 Honorary member in the *Phi Beta Kappa* and *Sigma Xi* scientific honor societies
- 1996 National Science Foundation Undergraduate Research Fellowship (REU Award)
- 1994 D. S. Tarbell Book Award in Organic Chemistry

**FUNDED GRANTS**

- 2017–2022 National Science Foundation RUI (Research at Undergraduate Institution) Award. “Structural and Functional Substrate Binding in Iterative Non–Ribosomal Peptide Synthesis–Independent Siderophore (NIS) Synthetase Enzyme DesD;” \$ 195,116 in total funding. Role: *Co-Principal Investigator* with Dr. Katherine Hoffmann (CLU).
- 2007–2010 American Chemical Society Petroleum Research Fund (ACS–PRF) *Type G* Award. “Chiral Aluminum(III) Complexes for Catalytic Asymmetric Diazoalkane–Carbonyl Homologation;” \$ 50,000 in total funding. Role: *Principal Investigator*

**PUBLICATIONS***(reverse chronological order)*

\* denotes graduate student authors

\*\* denotes undergraduate coauthors

**Book Chapters:**

26. D. C. Moebius\*, V. L. Rendina\*, J. S. Kingsbury; “Catalysis of Diazoalkane–Carbonyl Homologation. How New Developments in Hydrazone Oxidation Enable a Carbon Insertion Strategy for Synthesis.” In *C–C Bond Activation*; Dong, G., Ed.; Springer: Berlin, Germany 2014; 111–162. Also re-printed in *Top. Curr. Chem.* **2014**, *346*, 111–162.
25. J. S. Kingsbury, A. H. Hoveyda; “Polymer-Supported Olefin Metathesis Catalysts for Combinatorial and Organic Synthesis.” In *Polymeric Materials for Organic Synthesis and Catalysis*; Buchmeiser, M. R., Ed.; Wiley–VCH: Weinheim, Germany 2003, 467–502.

**Papers:**

24. J. S. Kingsbury, V. L. Rendina\*, J. S. Burman\*\*; B. A. Smolarski\*, “Catalytic Diazoalkane–Carbonyl Homologation: Preparation of 2,2-Diphenylcycloheptanone and Other alpha-Tertiary or -Quaternary Arylalkanones and Spirocycles.” *Org. Synth.* **2021**, *98*, 343–363.
23. J. S. Kingsbury, D. L. Elder, L. E. Johnson, B. A. Smolarski\*\*, H. E. Zeitler, and E. G. Armbruster\*\*; “Derivatives of DANPY (Dialkylaminonaphthylpyridinium), a DNA–Binding Fluorophore: Practical Synthesis of Tricyclic 2-Amino-6-bromonaphthalenes by Burcherer Reaction.” *ACS Omega* **2020**, *1*, 537–546.
22. L. E. Johnson, J. S. Kingsbury, D. L. Elder, R. A. Cattolico, L. N. Latimer, W. Hardin, E. De Meulenaere, C. Deodato, G. Depotter, S. Madabushi, N. W. Bigelow, B. M. Smolarski\*\*, T. L. Hougens\*\*, W. Kaminsky, K. Clays, and B. H. Robinson; “DANPY (Dimethylaminonaphthylpyridinium): An Economical and Biocompatible Fluorophore.” *Org. Biomol. Chem.* **2019**, *16*, 3765–3780.
21. H. Z. Kaplan\*, V. L. Rendina\*, J. S. Kingsbury; “General Methodologies Toward *cis*-Fused Quinone Sesquiterpenoids. Enantiospecific Synthesis of the *epi*-Ilimaquinone Core by Sc–Catalyzed Ring Expansion.” *Molecules* **2017**, *22*, 1041–1051.
20. A. J. Wommack\*, J. S. Kingsbury; “On the Scope of the Pt-catalyzed Srebnik Diborylation of Diazoalkanes. An Approach to Chiral Tertiary Boronic Esters and Alcohols *via* B–stabilized Carbanions.” *Tetrahedron Lett.* **2014**, *55*, 3149–3152.

19. A. J. Wommack\*, J. S. Kingsbury; "Synthesis of Acyclic Ketones by the Catalytic, Bidirectional Homologation of Formaldehyde with Non-Stabilized Diazoalkanes. Application of a Chiral Diazomethyl(pyrrolidine) in Total Syntheses of the *Erythroxylo*n Alkaloids." *J. Org. Chem.* **2013**, *78*, 10573–10587 [this full article was awarded cover of the November 1, 2013 issue of JOC]
18. H. Z. Kaplan\*, V. L. Rendina\*, J. S. Kingsbury; "A Diastereoselective Synthesis of Complex *cis*-Hexahydroindanes by Reductive Alkylation." *J. Org. Chem.* **2013**, *78*, 4620–4626.
17. V. L. Rendina\*, J. S. Kingsbury; "Rapid Titration of Non-stabilized Diazoalkane Solutions by <sup>19</sup>F NMR." *J. Org. Chem.* **2012**, *77*, 1181–1185.
16. V. L. Rendina\*, H. Z. Kaplan\*, J. S. Kingsbury; "Highly Efficient and Enantioselective  $\alpha$ -Arylation of Cycloalkanones by Catalytic Diazoalkane–Carbonyl Homologation." *Synthesis* **2012**, 686–693.
15. V. L. Rendina\*, S. A. Goetz\*\*\*, A. E. Neitzel\*, J. S. Kingsbury; "Scalable Synthesis of a New Enantiomerically Pure  $\pi$ -Extended Rigid Amino Indanol." *Tetrahedron Lett.* **2012**, *53*, 15–18.
14. V. L. Rendina\*, D. C. Moebius\*, J. S. Kingsbury; "Enantioselective Synthesis of 2-Aryl Cycloalkanones by Sc–Catalyzed Carbon Insertion." *Org. Lett.* **2011**, *13*, 2004–2007.
13. J. M. O'Brien\*, J. S. Kingsbury; "A Practical Catalytic Synthesis of 3-Acyl Cyclobutanones by [2+2] Annulation. Mechanism and Utility of the Zn(II)–Catalyzed Condensation of  $\alpha$ -Chloro-enamines with Electron-Deficient Alkenes." *J. Org. Chem.* **2011**, *76*, 1662–1672.
12. J. A. Dabrowski\*, D. C. Moebius\*, A. J. Wommack\*, A. F. Kornahrens\*\*\*, J. S. Kingsbury; "Catalytic and Regioselective Ring Expansion of Arylcyclobutanones with [Trimethylsilyl]diazomethane. Ligand-dependent entry to Ketosilane or Enolsilane adducts." *Org. Lett.* **2010**, *12*, 3598–3601.
11. A. J. Wommack\*, D. C. Moebius\*, A. L. Travis\*\*\*, J. S. Kingsbury; "Diverse Alkanones by Catalytic Carbon Insertion into Formyl C–H Bonds. Concise Access to a Natural Precursor of Achryofuran." *Org. Lett.* **2009**, *11*, 3202–3205.
10. D. C. Moebius\*, J. S. Kingsbury; "Catalytic Homologation of Cycloalkanones with Substituted Diazomethanes. Mild and Efficient One-Step Access to  $\alpha$ -Tertiary and -Quaternary Carbonyls." *J. Am. Chem. Soc.* **2009**, *131*, 878–879.
9. J. S. Kingsbury, E. J. Corey; "Enantioselective Total Synthesis of Isoedunol and  $\beta$ -Araneosene Featuring Unconventional Strategy and Methodology." *J. Am. Chem. Soc.* **2005**, *127*, 13813–13815.
8. J. S. Kingsbury, A. H. Hoveyda; "Regarding the Mechanism of Olefin Metathesis with Sol-Gel-Supported Ru-Based Complexes Bearing a Bidentate Carbene Ligand. Spectroscopic Evidence for Return of the Propagating Ru Carbene." *J. Am. Chem. Soc.* **2005**, *127*, 4510–4517.
7. A. H. Hoveyda, D. G. Gillingham, J. J. Van Veldhuizen, O. Kataoka, S. B. Garber, J. S. Kingsbury; "Ru Complexes Bearing Bidentate Carbenes: From an Innocent Curiosity to Uniquely Effective Catalysts for Olefin Metathesis." *Org. Biomol. Chem.* **2004**, 8–23.
6. J. J. Van Veldhuizen, S. B. Garber, J. S. Kingsbury, A. H. Hoveyda; "A Recyclable Chiral Ruthenium

Catalyst for Enantioselective Olefin Metathesis. Efficient Catalytic Asymmetric Ring–Opening Cross Metathesis in Air.” *J. Am. Chem. Soc.* **2002**, *124*, 4954–4955.

5. J. S. Kingsbury, S. B. Garber, J. M. Giftos, B. L. Gray, M. M. Okamoto, R. A. Farrer, J. T. Fourkas, A. H. Hoveyda; “Immobilization of Olefin Metathesis Catalysts onto Monolithic Sol-Gel. Practical, Efficient, and Recyclable Catalysts for Organic and Combinatorial Synthesis.” *Angew. Chem. Int. Ed.* **2001**, *40*, 4251–4256.
4. S. B. Garber, J. S. Kingsbury, B. L. Gray, A. H. Hoveyda; “Efficient and Recyclable Monomeric and Dendritic Ru-Based Metathesis Catalysts.” *J. Am. Chem. Soc.* **2000**, *122*, 8168–8179.
3. J. S. Kingsbury, J. P. A. Harrity, P. J. Bonitatebus, Jr., A. H. Hoveyda; “A Recyclable Ru–Based Metathesis Catalyst.” *J. Am. Chem. Soc.* **1999**, *121*, 791–799.

### Patents:

2. A. H. Hoveyda, J. J. Van Veldhuizen, J. S. Kingsbury, S. B. Garber; “Recyclable Chiral Metathesis Catalysts.” **2005**, Patent Number US 6,939,982.
1. A. H. Hoveyda, J. S. Kingsbury, S. B. Garber, B. L. Gray, and J. T. Fourkas; “Recyclable Metathesis Catalysts.” **2005**, Patent Number US 6,921,735.

### Ph.D. Dissertation:

J. S. Kingsbury (2003) “Recyclable and Chiral Ru-Based Metathesis Catalysts for Organic and Combinatorial Synthesis.” Boston College, Chestnut Hill, MA.

## CURRENT AND FORMER STUDENTS

### Undergraduate Research Mentored

Drew Miles	B.Sc. in 2020	Technician now at C–Technologies, Inc. [a Repligen company]
Natalie Ruhl	B.Sc. in 2020	Stauffer Fellowship, Chem 496 [research credit equivalent]
Emily Armbruster	B.Sc. in 2019	Ph.D. student in genetics, University of California, San Diego
Yoojin (Irene) Jang	B.Sc. in 2019	Masters’ student at California State University, Northridge
James Nguyen	B.Sc. in 2018	Masters’ student at California State University, Northridge
Karam Malki-Hajar	B.Sc. in 2018	D.O. candidate at Lake Erie College of Osteopathic Medicine
Joseph Cronin	B.Sc. in 2018	Hired by Integrity Bio, Inc. now a Ph.D. student at U.C. Davis
George French	B.Sc. in 2018	Dental student, Herman Ostrow School of Dentistry, U.S.C.
Joseph Enders	B.Sc. in 2017	Ph.D. student in the Department of Biology, Boston College
Hasmik Adetyan	B. A. in 2016	PharmD student at the University of Chicago
Brittany Smolarski	B.Sc. in 2016	Lab technician at Scripps Research Institute, La Jolla, CA
Trevor Hougen	B.Sc. in 2016	Process chemist at Parker-Hannifin, Camarillo, CA
Jacob Burman	B.Sc. in 2015	Ph.D. Emory University, now Raybow Pharma (Brevard, NC)
Samantha Goetz	B.Sc. in 2012	Masters’ at U.C. Irvine; Chemist at AbbVie, Cambridge, MA
Julian Ponsetto	B.Sc. in 2012	Med student, Loyola U. Chicago, Stritch School of Medicine
Anne Kornahrens	B.Sc. in 2011	2012 scholar in the joint Scripps-Oxford graduate program
Austin Travis	B.Sc. in 2010	pursued Ph.D. at Massachusetts Institute of Technology

**Graduate Research Mentored**

Hilan Kaplan	Ph.D. in 2014	Principal scientist, Epoch Innovations (Pasadena, CA)
Victor Rendina	Ph.D. in 2013	Chemist at Holston Army Ammunition Plant (BAE Systems)
Jennifer Dabrowski	Ph.D. in 2012	Assistant Professor, Elon University (Burlington, NC)
Jeannette Garcia	Ph.D. in 2011	Manager of Quantum Chemistry, IBM–Almaden
Andy Wommack	Ph.D. in 2011	Assistant Professor, High Point University (High Point, NC)
David Moebius	Ph.D. in 2011	Principal scientist, Syros Pharmaceuticals (Cambridge MA)
Adam Johnson	Masters (B.C.)	Process chemistry, Merck Research Laboratories, Rahway
Angelika Neitzel	Masters (B.C.)	Post-doc, Institute for Molecular Engineering, U. of Chicago

**TEACHING**

- Chem 118 (B.C.): Principles of Modern Chemistry, honors course; Spring terms 2008–2010
- Chem 243 (B.C.): Honors Organic Laboratory, companion to 118; Fall semester 2011
- Chem 523 (B.C.): Organometallic Chemistry, graduate course; Spring semester 2012
- Chem 531 (B.C.): Modern Methods in Organic Synthesis, grad course; Fall terms 2006–2008
- Chem 537 (B.C.): Mechanistic Organic Chemistry, graduate course; Fall semester 2009

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- Chem110a (P.C.): Organic Chemistry I (includes lecture & laboratory); Fall semester 2012
  - Chem 01aL (P.C.): General Chemistry I Laboratory (one section only); Fall semester 2012
  - Chem110b (P.C.): Organic Chemistry II (includes lecture & laboratory); Spring semester 2013

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- Chem 151 (CLU): General Chemistry I (lecture only); Fall semester 2013
  - Chem 152 (CLU): General Chemistry II (lecture only); Spring semesters 2014 and 2021
  - Chem 331 (CLU): Organic Chemistry I (lecture only); every Fall 2014–present
  - Chem 332 (CLU): Organic Chemistry II (lecture only); every Spring 2015–present
  - Chem 341 (CLU): Organic Chemistry I Laboratory; Fall semesters 2013, 2014, 2017, 2018
  - Chem 342 (CLU): Organic Chemistry II Laboratory; Spring terms 2014, 2015, 2018, 2019
  - Chem 412 (CLU): Advanced Organic Chemistry, alternating elective; Spring term 2017, 2019
  - Chem 482 (CLU): Natural Products Biosynthesis, 2-term elective; academic year 2013–2014

**INVITED LECTURES**

- Amgen, Cambridge, MA September 2006
- College of the Holy Cross, Worcester, MA April 2008
- Hamilton College, Clinton, NY April 2009
- Boston University, Boston, MA May 2011
- The State University of New York (SUNY), Albany, NY October 2011
- The University of Massachusetts (UMass), Dartmouth, MA October 2011 and August 2016

**PEER REVIEWER**

- *Journal of the American Chemical Society*
- *Journal of Organic Chemistry* (ACS journal)
- *Organic Letters* (ACS journal)
- *Chemical Reviews* (ACS journal)
- *Tetrahedron Letters* (Elsevier journal)
- ACS Petroleum Research Fund (grantee in 2007, reviewed other type G startup grants in subsequent year of support)
- Roberts and Co. Publishers (reviewer of Joel Karty's "mechanistic" organic text)

## **PROFESSIONAL SERVICE**

- B. C. *Chemistry Safety Committee*, faculty liaison for Organic Division August 2006–June 2012
  - Authored a clear protocol for dispensing/handling pyrophoric alkyllithium, -zinc, and -aluminum reagents in the wake of UCLA’s tragic fire. Now endorsed, the document plays a vital role in the annual training of all graduate students.
- Faculty Mentor in the *Research Science Institute* (RSI), Cambridge, MA summers 2009–2011
  - A program sponsored by the Center for Excellence in Education (based at MIT) in which select international high school students participate in wet research and applied science coursework.
- Faculty Volunteer in the B. C. *Big Brothers (and Big Sisters) Program* May 2010–June 2012
  - This program matches undergraduates with “at risk” youth in the Boston Public School System. Little brothers from West Roxbury and Dorchester were bused to campus to see live, narrated demonstrations of chemical reactivity.
- Member of the CLU *Institutional Review Board* (IRB) August 2014–Jan. 2017
  - This committee reviews and endorses university-wide applications in human subjects research.
- Faculty participant in planning/design of CLU’s Swenson Science Center August 2014–present
  - Construction of a \$30 million, LEED certified, joint sciences center was completed in Fall 2020.
- Member of CLU *Faculty Advancement & Development Committee* (FAD) May 2018–Aug. 2020
  - Elected to service by faculty vote, I work to address issues facing junior faculty in all disciplines, including affordable housing, resources for scholarship, and promotion/rank/tenure aspects.
- Member of CLU *Appointment, Rank, and Tenure Committee* (ART) Sept. 2020–present
  - Elected to ART for three year term, I carefully review/evaluate 4<sup>th</sup> and 6<sup>th</sup>-year faculty dossiers.

## **ADDITIONAL REFERENCES**

Amir H. Hoveyda  
Vanderslice Millenium Professor  
Boston College Chemistry Dept.  
Merkert Chemistry Center  
2609 Beacon Street  
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Department of Chemistry  
and Chemical Biology  
Harvard University  
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Department of Chemistry  
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University of Massachusetts, Dartmouth  
285 Old Westport Road  
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Bruce H. Robinson  
Larry R. Dalton Endowed Chair in Chemistry  
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