

Kate M. Waldie

Rutgers, The State University of New Jersey
Department of Chemistry and Chemical Biology
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EDUCATION

- 2016 Ph.D. in Chemistry, Stanford University, Stanford, CA
Advisor: Professor Robert M. Waymouth
Cumulative GPA: 4.04/4.00
Thesis: "Investigations of Homogeneous Ruthenium and Cobalt Complexes for Electrocatalytic Transformations."
- 2010 B.Sc. Chemistry, Honours with Distinction, University of Victoria, Canada
Cumulative GPA: 8.86/9.00
Honours Thesis: "Synthesis, characterization, and electrochemical studies of new bis(imino)indigo ("Nindigo") derivatives and their binuclear palladium complexes."

PROFESSIONAL EXPERIENCE

- 2018-present Assistant Professor, Department of Chemistry and Chemical Biology, Rutgers, The State University of New Jersey
- 2016-2018 Postdoctoral Scholar, Department of Chemistry and Biochemistry, University of California San Diego
Advisor: Professor Clifford P. Kubiak

AWARDS & HONORS

- 2015-2016 Center for Molecular Analysis and Design (CMAD) Fellowship, Stanford University
- 2011-2014 Natural Sciences and Engineering Research Council of Canada (NSERC) Postgraduate Scholarship, Doctoral Level
- 2010-2013 Stanford Graduate Fellowship in Science and Engineering, Gabilan Fellow
- 2010-2011 Natural Sciences and Engineering Research Council of Canada (NSERC) Postgraduate Scholarship, Masters Level
- 2010 Henry Taube Award, Stanford University
- 2010 ACS Division of Inorganic Chemistry Undergraduate Award in Inorganic Chemistry
- 2010 British Columbia Inorganic Discussion Weekend Poster Prize

2010	Natural Sciences and Engineering Research Council of Canada (NSERC) Undergraduate Student Research Award
2010	Society of Chemical Industry Canada Section Merit Award
2005-2009	University of Victoria Excellence Award Scholarship
2009	Canadian Society for Chemistry Silver Medal Award
2009	Charles Humphrey Memorial Scholarship in Chemistry
2009	Frank and Margaret Gibbs Scholarship
2009	Hazel T. Knox Memorial Scholarship
2009	Natural Sciences and Engineering Research Council of Canada (NSERC) Undergraduate Student Research Award
2009	Undergraduate Research Scholarship in Chemistry
2009	University of Victoria Faculty Scholarship
2009	University of Victoria Science Undergraduate Research Award
2008	Charles Humphrey Memorial Scholarship in Chemistry
2008	Natural Sciences and Engineering Research Council of Canada (NSERC) Undergraduate Student Research Award
2008	Stephen A. Ryce Memorial Scholarship
2008	University of Victoria Science Undergraduate Research Award
2006	Seaspan International Ltd. Scholarship
2005	British Columbia Provincial Scholarship
2005	Oak Bay Municipal Scholarship
2005	Miller Thomson Foundation National Scholarship
2005	Royal Canadian Legion Sir Percy Lake Memorial Scholarship
2005	Soroptimist Club Violet Richardson Award for Young Women

PUBLICATIONS

Independent Career, Rutgers University

1. Katipamula, S.; Parihar, A.; Nadeesha, C.; Emge, T. J.; Goldman, A, S.; **Waldie, K. M.*** “Hydrogen Activation at Cobalt: Accessing Heterolytic versus Homolytic Pathways based on the Metal Oxidation State.” *Manuscript in preparation.*
2. Zou, M; Kuruppu, S.; **Waldie, K. M.*** “Oxygen Reduction by Redox-Active Ligand-Centered Hydrogen Atom from a Cobalt Complex.” *Manuscript in preparation.*
3. Katipamula, S.; **Waldie, K. M.*** “Metal-Cyclopentadienyl Complexes as Electrocatalysts for Energy Conversion Reactions with Earth-Abundant Metals.” *Manuscript in preparation.*

4. Teeluck, K.; **Waldie, K. M.*** “Morphology Variations of Transition Metal Oxides for the Oxygen Evolution Reaction.” *Under review at Advanced Energy and Sustainability Research*.
5. Teeluck, K.; Carignan, G. M.; Dogan, M.; Corral, A. J.; **Waldie, K. M.*** “Nanospike Nickel-Iron Oxalate as an Efficient Electrocatalyst for the Oxygen Evolution Reaction.” *Revisions in progress for Small Methods*.
Preprint deposited in *ChemRxiv*. DOI: 10.26434/chemrxiv-2024-2rpf6
6. Katipamula, S.; Cook, A. W.; Nadeesha, C.; Parihar, A.; Niedzwiecki, I.; Emge, T. J.; **Waldie, K. M.*** “Electrocatalytic Formate Oxidation by Cobalt-Phosphine Complexes.” *Second revisions submitted to ACS Catalysis*.
Preprint deposited in *ChemRxiv*. DOI: 10.26434/chemrxiv-2023-tfn6t
7. Katipamula, S.; Nadeesha, C.; Emge, T. J.; **Waldie, K. M.*** “Oxidation-Induced Ligand Swap: Oxygen Insertion into a Cobalt-Phosphine Complex.” *Organometallics*, **2024**, *ASAP Article*. DOI: 10.1021/acs.organomet.4c00254
Preprint deposited in *ChemRxiv*. DOI: 10.26434/chemrxiv-2024-r59wp
8. Zou, M.; **Waldie, K. M.*** “Redox-Active Ligand Promoted Multielectron Reactivity at Earth-Abundant Transition Metal Complexes.” *Inorg. Chem. Front.* **2024**, *Advance Article*. DOI: 10.1039/D4QI01265H
9. Zou, M.; Kuruppu, S.; Emge, T. J.; **Waldie, K. M.*** “Metal- versus Ligand-Centered Reactivity of a Cobalt-Phenylenediamide Complex with Electrophiles.” *Dalton Trans.* **2024**, *Advance Article*. DOI: 10.1039/D4DT01655F
Preprint deposited in *ChemRxiv*. DOI: 10.26434/chemrxiv-2024-45wll
10. White, N. M.; **Waldie, K. M.*** “Electrocatalytic Formate and Alcohol Oxidation by Hydride Transfer at First-Row Transition Metal Complexes.” *Dalton Trans.* **2024**, *53*, 11644-11654. DOI: 10.1039/D3DT04304E
11. Zou, M.; **Waldie, K. M.*** “Redox-Active Ligand Promoted Electrophile Addition at Cobalt.” *Chem. Commun.* **2023**, *59*, 14693-14696. DOI: 10.1039/D3CC04869A.
Emerging Investigators Special Collection.
12. Bhatti, T. M.; Kumar, A.; Parihar, A.; Moncy, H. K.; Emge, T. J.; **Waldie, K. M.**; Hasanayn, F.*; Goldman, A. S.* “Metal-Ligand Proton Tautomerism, Electron-Transfer, and C₃-H Activation by a 4-Pyridinyl-Pincer Iridium Hydride Complex.” *J. Am. Chem. Soc.* **2023**, *145*, 18296-18306. DOI: 10.1021/jacs.3c03376
13. Zou, M.; Emge, T. J.; **Waldie, K. M.*** “Two-Electron Redox Tuning of Cyclopentadienyl Cobalt Complexes Enabled by the Phenylenediamide Ligand.” *Inorg. Chem.* **2023**, *62*, 10397-10407. DOI: 10.1021/acs.inorgchem.3c01283
Preprint deposited in *ChemRxiv*. DOI: 10.26434/chemrxiv-2023-I58hm
14. Katipamula, S.; White, N. M.; **Waldie, K. M.*** “Controlled-Potential Electrolysis for Evaluating Molecular Electrocatalysts.” *Chem Catalysis* **2023**, *3*, 100561. DOI: 10.1016/j.checat.2023.100561. *Women in Catalysis Special Issue*.
15. Timm, J.; Pike, D. H.; Mancini, J. A.; Tyryshkin, A. M.; Poudel, S.; Siess, J.; Molinaro, P.; McCann, J. J.; **Waldie, K. M.**; Koder, R. L.; Falkowski, P. G.; Nanda, V.* “Design of

- a Minimal di-Nickel Hydrogenase Peptide.” *Sci. Adv.* **2023**, *9*, eabq1990. DOI: 10.1126/sciadv.abq1990
16. **Waldie, K. M.***, Katipamula, S. “Recent Progress in the Development of Molecular Electrocatalysts for Formate Oxidation.” *Catalysis Research* **2022**, *2*, 15. DOI: 10.21926/cr.2201006
17. Cook, A. W.; Emge, T. J.; **Waldie, K. M.*** “Insights into Formate Oxidation by a Series of Cobalt Piano-Stool Complexes Supported by Bis(phosphino)amine Ligands.” *Inorg. Chem.*, **2021**, *60*, 7372-7380. DOI: 10.1021/acs.inorgchem.1c00563
18. Cook, A. W.; **Waldie, K. M.*** “Molecular Electrocatalysts for Alcohol Oxidation: Insights and Challenges for Catalyst Design.” *ACS Appl. Energy Mater.* **2020**, *3*, 38-46. DOI: 10.1021/acsaem.9b01820. *Young Investigator Forum.*

Prior Publications

19. Barrett, J. A.; Brunner, F. M.; Cheung, P. L.; Kubiak, C. P.; Lee, G. L.; Miller, C. J.; **Waldie, K. M.**; Zhanaidarova, A. “Approaches to Controlling Homogeneous Electrochemical Reduction of Carbon Dioxide” In *Carbon Dioxide Electrochemistry: Homogeneous and Heterogeneous Catalysis*; Robert, M.; Costentin, C.; Daasbjerg, K., Eds.; Energy and Environment Series No. 28; The Royal Society of Chemistry, 2020; pp 1-66. DOI: 10.1039/9781788015844-00001
20. Ostericher, A. L.; **Waldie, K. M.**; Kubiak, C. P.* “Utilization of Thermodynamic Scaling Relationships in Hydricity to Develop Nickel Hydrogen Evolution Reaction Electrocatalysts with Weak Acids and Low Overpotentials.” *ACS Catal.* **2018**, *8*, 9596-9603. DOI: 10.1021/acscatal.8b02922
21. McLoughlin, E.[†]; **Waldie, K. M.[†]**; Ramakrishnan, S.; Waymouth, R. M.* “Protonation of a Cobalt Phenylazopyridine Complex at the Ligand Yields a Proton, Hydride, and Hydrogen Atom Transfer Reagent.” *J. Am. Chem. Soc.* **2018**, *140*, 13233-13241. DOI: 10.1021/jacs.8b06156
22. **Waldie, K. M.**; Brunner, F. M.; Kubiak, C. P.* “Transition Metal Hydride Catalysts for Sustainable Interconversion of CO₂ and Formate: Thermodynamic and Mechanistic Considerations.” *ACS Sustainable Chem. Eng.* **2018**, *6*, 6841-6848. DOI: 10.1021/acssuschemeng.8b00628
23. **Waldie, K. M.[†]**; Ostericher, A. L.[†]; Reineke, M. H.; Sasayama, A. F.; Kubiak, C. P.* “Hydricity of Transition Metal Hydrides: Thermodynamic Considerations for CO₂ Reduction.” *ACS Catal.* **2018**, *8*, 1313-1324. DOI: 10.1021/acscatal.7b03396
Selected for ACS Editor’s Choice.
24. **Waldie, K. M.**; Kim, S.-K.; Ingram, A. J.; Waymouth, R. M.* “Cyclopentadienyl Cobalt Complexes as Precatalysts for Electrocatalytic Hydrogen Evolution.” *Eur. J. Inorg. Chem.* **2017**, 2755-2761. DOI: 10.1002/ejic.201700188
25. **Waldie, K. M.[†]**; Ramakrishnan, S.[†]; Kim, S.-K.; Maclaren, J. K.; Chidsey, C. E. D.; Waymouth, R. M.* “Multielectron Transfer at Cobalt: Influence of the Phenylazopyridine Ligand.” *J. Am. Chem. Soc.* **2017**, *139*, 4540-4550. DOI: 10.1021/jacs.7b01047

26. **Waldie, K. M.**; Flajslik, K. R.; McLoughlin, E.; Chidsey, C. E. D.; Waymouth, R. M.* “Electrocatalytic Alcohol Oxidation with Ruthenium Transfer Hydrogenation Catalysts.” *J. Am. Chem. Soc.* **2017**, *139*, 738-748. DOI: 10.1021/jacs.6b09705
27. Ramakrishnan, S.[†]; **Waldie, K. M.**[†]; Warnke, I.; De Crisci, A. G.; Batista, V. S.;* Waymouth, R. M.;* Chidsey, C. E. D.* “Experimental and Theoretical Study of CO₂ Insertion into Ruthenium Hydride Complexes.” *Inorg. Chem.* **2016**, *55*, 1623-1632. DOI: 10.1021/acs.inorgchem.5b02556
28. Nawn, G.; **Waldie, K. M.**; Oakley, S. R.; Peters, B. D.; Mandel, D.; Patrick, B. O.; McDonald, R.; Hicks, R. G.* “Redox-Active Bridging Ligands based on Indigo Diimine (“Nindigo”) Derivatives.” *Inorg. Chem.* **2011**, *50*, 9826-9837. DOI: 10.1021/ic200388y
29. Oakley, S. R.; Nawn, G.; **Waldie, K. M.**; MacInnis, T. D.; Patrick, B. O.; Hicks, R. G.* ““Nindigo”: Synthesis, Coordination Chemistry, and Properties of Indigo Diimines as a new class of Functional Bridging Ligands.” *Chem. Comm.* **2010**, *46*, 6753-6755. DOI: 10.1039/C0CC01736A

[†] These authors contributed equally.

* Corresponding author.

PRESENTATIONS (2018-present)

1. Yale University, Department of Chemistry, New Haven, CT. October 21, 2024. (upcoming invited talk)
2. Organometallic Chemistry Gordon Research Conference, Newport, RI. July 2024. “Achieving Multielectron Reactivity at Cobalt with Redox-Active Ligands.” (selected talk)
3. University of California Davis, Department of Chemistry, Davis, CA. May 21, 2024. “Enabling Electrocatalytic Transformations through Ligand Tuning at Transition Metal Complexes.” (invited talk)
4. New York University, Department of Chemistry, New York, NY. May 7, 2024. “Enabling Electrocatalytic Transformations through Ligand Tuning at Transition Metal Complexes.” (invited talk)
5. University of Michigan, Department of Chemistry, Ann Arbor, MI. April 23, 2024. “Enabling Electrocatalytic Transformations through Ligand Tuning at Transition Metal Complexes.” (invited talk)
6. Renewable Energy: Solar Fuels Gordon Research Conference, Ventura, CA. February 7, 2024. Discussion leader on “Cascade Transformations to Achieve Energy Dense Fuels.” (invited discussion leader, poster)
7. Drew University, Department of Chemistry, Madison, NJ. November 8, 2023. “Enabling Electrocatalytic Transformations through Ligand Tuning at Transition Metal Complexes.” (invited talk)
8. North Carolina State University, Department of Chemistry, Raleigh, NC. October 12, 2023. “Enabling Electrocatalytic Transformations through Ligand Tuning at Transition Metal Complexes.” (invited talk)

9. University of California Berkeley, College of Chemistry, Berkeley, CA. September 22, 2023. “*Enabling Electrocatalytic Transformations through Ligand Tuning at Transition Metal Complexes.*” (invited talk)
10. ACS National Meeting & Exposition Fall 2023 – Advances in Photo- and Electrochemical Reduction of Carbon Dioxide: Symposium Honoring Etsuko Fujita, San Francisco, CA. August 15, 2023. “*Electrochemical Oxidation Reactions at First-Row Transition Metal Complexes.*” (invited talk) *Cancelled due to Covid-19*
11. ACS National Meeting & Exposition Fall 2023 – Catalysis Goes to Eleven Symposium, San Francisco, CA. August 13, 2023. “*Multielectron Redox Transformations Enabled by a Redox-Active Ligand.*” (invited talk)
12. University of Virginia, Department of Chemistry, Charlottesville, VA. March 31, 2023. “*Enabling Electrocatalytic Transformations through Ligand Tuning at Transition Metal Complexes.*” (invited talk)
13. Rutgers, The State University of New Jersey, Laboratory for Biomaterials Research, New Brunswick, NJ. February 10, 2023. “*My Experiences in Chemistry and Aiming to Improve the Experiences of Others.*” (invited talk)
14. Philadelphia Inorganic Colloquium, Villanova University, Villanova, PA. October 29, 2022. “*Exploring the Electrocatalytic Activity and Electronic Structures of Piano Stool Complexes.*” (invited talk)
15. ACS National Meeting & Exposition Fall 2022 – Emerging Areas in Inorganic Chemistry Symposium, Chicago, IL. August 21, 2022. “*Insights into Electrocatalytic Oxidation Reactions using First-Row Transition Metal Complexes.*” (invited talk, symposium co-organizer)
16. ACS Middle Atlantic Regional Meeting – Carbon Dioxide Reduction Chemistry: Electrochemical and Photochemical Pathways Symposium, Trenton, NJ. June 4, 2022. “*Thermodynamic Hydricity: Tipping the Scale between Carbon Dioxide Reduction and Formate Oxidation.*” (invited talk)
17. ACS Middle Atlantic Regional Meeting – Advances in Electrochemistry Symposium, Trenton, NJ. June 4, 2022. “*Multi-Electron Redox Behavior in Molecular Cobalt Complexes Revealed by Electrochemistry.*” (invited talk)
18. International Solar Fuels Conference, Virtual Meeting. July 28, 2021. “*Insights into Metal-Hydride Formation for Electrocatalytic Oxidation Reactions.*” (invited talk)
19. ACS Middle Atlantic Regional Meeting – Inorganic and Organometallic Young Investigator Symposium, Virtual Meeting. June 10, 2021. “*Photoswitchable Extended Network Materials.*” (invited talk)
20. ACS Middle Atlantic Regional Meeting – Energy Catalysis Symposium, Virtual Meeting. June 10, 2021. “*Insights into Electrocatalytic Oxidation Reactions using First-Row Transition Metal Complexes.*” (invited talk)
21. ACS National Meeting & Exposition Spring 2021, Virtual Meeting. April 14, 2021. “*First-Row Transition Metal Complexes for Electrocatalytic Oxidation of Fuels.*” (selected talk)

22. Renewable Energy: Solar Fuels Gordon Research Conference, Lucca, Italy. May 3, 2024. “Development of Molecular Electrocatalysts for Energy-Related Transformations.” (poster) *Cancelled due to Covid-19*
23. ACS National Meeting & Exposition Spring 2020 – Emerging Areas in Inorganic Chemistry Symposium, Philadelphia, PA. March 24, 2020. “*First-row transition metal complexes for the electrocatalytic oxidation of liquid fuels.*” (invited talk, symposium co-organizer) *Cancelled due to Covid-19*
24. Rutgers, The State University of New Jersey, Department of Materials Science and Engineering, New Brunswick, NJ. December 10, 2019. “*Photoswitchable Metal Organic Frameworks (MOFs).*” (invited talk)
25. ACS National Meeting & Exposition Fall 2019, San Diego, CA. August 28, 2019. “*Development of Molecular Catalysts for Energy-Related Transformations.*” (talk)
26. Muhlenberg College, Department of Chemistry, Allentown, PA. October 26, 2018. “*Using Thermodynamic Hydricity as a Guide for Electrocatalyst Design.*” (invited talk)
27. ACS National Meeting & Exposition Spring 2018, New Orleans, LA. March 20, 2018. “*Electrocatalytic Formate Oxidation with an Iridium Hydride Complex.*” (talk)
28. ACS National Meeting & Exposition Spring 2018, New Orleans, LA. March 18, 2018. “*Hydricity and Other Thermodynamic Considerations for CO₂ Reduction.*” (poster)
29. Rutgers, The State University of New Jersey, Department of Chemistry and Chemical Biology, New Brunswick, NJ. February 8, 2018. “*Chemical and Electrochemical Approaches to Moving Protons and Electrons with Metal Hydride Complexes.*” (invited talk)

RESEARCH PROGRAM

Current Support

NSF Division of Chemistry, Chemical Catalysis Program	CHE-2247645
Kate M. Waldie (PI) 07/01/2023-06/30/2026	\$530,387
<i>Electrochemical Ionic Hydrogenation: Promoting Carbonyl and Imine Reduction through Electrocatalysis</i>	
ACS Petroleum Research Fund, Doctoral New Investigator Grant	65171-DNI3
Kate M. Waldie (PI) 01/01/2022-08/31/2025	\$110,000
<i>Noble-Metal Reactivity at Cobalt: Using Redox Active Ligands to Promote Multi-Electron Transformations</i>	

Current Graduate Students

Amy Ekka (2023-present)
Chathumini Nadeesha (2023-present)
Sewwandi Kuruppu (2023-present)
Alex Corral (2021-present)
Navar Mercer White (2020-present)

Former Graduate Students

Sriram Katipamula, Ph.D. 2024
Minzhu Zou, Ph.D. 2024
Krishani Teeluck, Ph.D. 2023
Hellan Kadukumblayil Money, M.S. 2023
Jennifer Guzman Pichardo, M.S. 2022
Siddhant Warriar, M.S. 2022

Rutgers Undergraduate Students

Demetra Giannakopoulos, 2024-present
Melisa Dogan, 2023-present
Ezra Goldfarb, 2023-present
Andrew Fedors, 2021-2023 (B.A. 2023) – *now Ph.D. student at Yale University*
Kaitlin Cheung, 2020-2023 (B.A. 2023) – *now Ph.D. student at UC Los Angeles*
Isabella Niedzwiecki, 2020-2023 (B.A. 2023) – *now Ph.D. student at Johns Hopkins*
Priya Patel, 2018-2022 (B.A. 2022) – *now Ph.D. student at UC Berkeley*
Jingjing Jin, Fall 2018 (B.A. 2019) – *now Ph.D. student at Columbia University*

Summer Research Assistants

Brayden Messinger (RISE 2024)
Oliver Baumeier (RISE 2023)
Paul Masaka (Aresty 2023)
Alexander Hidalgo (RISE 2022)
Victoria Diaz (RISE 2021)
Andrew Fedors (Aresty 2021)
Ronaldo Franjul (RISE 2020)
Isabella Niedzwiecki (Aresty 2020)
Zachary Clifford (RISE 2019)
Priya Patel (Aresty 2019)

Postdoctoral Associates

Dr. Andrew Cook, Ph.D. (2019-2021)

TEACHING

Chem 459/549	Electroanalytical Chemistry (F2018, F2020, F2022, F2024) Rutgers University – New Brunswick
Chem 164	Honors General Chemistry II (S2020, S2022, S2024) Rutgers University – New Brunswick

SERVICE & OUTREACH

Journal Reviewer	<i>Accounts of Chemical Research, ACS Applied Energy Materials, ACS Catalysis, ACS Organic & Inorganic Au, Advanced Materials, Angewandte Chemie, ChemElectroChem, Chemical Communications, Chemical Science, Chemical Society Reviews, Chemistry – A European Journal, ChemSusChem, Inorganic Chemistry, JACS Au, Journal of Physical Chemistry, Journal of the American Chemical Society, Journal of The Electrochemical Society, Microchemical Journal, Nature, Nature Catalysis, Nature Communications, Organometallics</i>
Guest Editor	<i>RSC Sustainability – Electrocatalysis for Energy Conversion Reactions Themed Collection</i>
Grant Reviewer	ACS Petroleum Research Fund (2021-2024) DOE Basic Energy Sciences (2020-2024) NSF Grant Review Panellist (2019)
Co-Organizer	The Electrocatalysis Workshop, www.thewaldiegroupp.com/electrocatalysis , Rutgers University (2024-present) “Emerging Areas in Inorganic Chemistry” Symposium, ACS National Meeting Fall 2022, Chicago, IL (2022) “Emerging Areas in Inorganic Chemistry” Symposium, ACS National Meeting Spring 2020, <i>cancelled due to Covid-19</i> (2020) International Solar Fuels Young Conference (ISF-2 Young), San Diego, CA (2017)
Organizer	Diversity in Chemistry Symposium Series, Rutgers University (2021-present)
Faculty Advisor	CCB Student Diversity Committee, Rutgers University (2021-present)
Faculty Mentor	Research Intensive Summer Experience (RISE) Program (2019-2024) Aresty Summer Science Program (2019-2023) Douglass WiSE Program, Project SUPER (2023)
Member	Division of Mathematical and Physical Sciences Diversity, Equity, and Inclusion Committee, Rutgers University (2023-present) School of Arts and Sciences Diversity Equity and Inclusion Committee, Rutgers University (2023-present) School of Arts and Sciences Core Requirements Committee (2021-present) CCB Departmental Committee Member: Undergraduate Strategic Initiatives (2023-present) CCB Diversity Equity and Inclusion (2021-present) Graduate Admissions (2018-present) Graduate Recruitment (2018-present)

Safety (2019-2022)