

## Daniel Luis do Nascimento, Ph. D. – *Curriculum Vitae*

University of North Carolina at Greensboro  
Department of Chemistry and Biochemistry  
Sullivan Science Bldg Rm #412, Greensboro, NC 27412

Tel. (+1) 857 413–1409  
email: dldonascime@uncg.edu  
danielluisdonascimento@gmail.com

### WORK, EDUCATION AND TRAINING

Asst. Prof. University of North Carolina at Greensboro (Greensboro – NC, USA); 2025–present  
Postdoc Harvard University (Cambridge – MA, USA); 2021–25  
Advisor: Prof. Daniel Nocera  
Ph.D. University of Ottawa (Ottawa – ON, Canada); 2016–21  
Advisor: Prof. Deryn Fogg  
Exchange University of Pennsylvania, (Philadelphia – PA, USA); 2013–14  
Independent Research Study. Advisor: Prof. Daniel Mindiola  
B.Sc. University of São Paulo (São Carlos – SP, Brazil); 2010–16

### PUBLICATIONS (C = communication; F = full paper. Names in order of contribution, PI last)

- 12C. **D. L. Nascimento**; D. Gygi; M. C. Drummer; M. I. Gonzalez; S. L. Zheng; D. G. Nocera.\* Photoredox Oxidation of Alkanes by Monometallic Copper-Oxygen Complexes Under Visible Light Including One Sun illumination. *J. Am. Chem. Soc.* **2024**, 146, 28612–28617.
- 11F. **D. L. Nascimento**;† R. Sun;† S. Ruccolo;† Y. Qin; N. Hibbert; D. G. Nocera.\* Selective N-H Bond Activation by Unidirectional PCET Using Camphorquinone as a Sustainable Photoredox Catalyst. († Co-first author). *Chem. Sci.* **2023**, 14, 13776–13782.
- 10C. G. Occhipinti, **D. L. Nascimento**, M. Foscato, D. E. Fogg, V. R. Jensen.\* The Janus face of high trans-effect carbenes in olefin metathesis: Gateway to productivity and decomposition. *Chem. Sci.* **2022**, 13, 5107–5117. **Editor's choice; front cover art.**
- 9C. **D. L. Nascimento**, M. Foscato, G. Occhipinti, V. R. Jensen, D. E. Fogg.\* Bimolecular Coupling in Olefin Metathesis: Correlating Structure and Decomposition for Leading and Emerging Ruthenium–Carbene Catalysts. *J. Am. Chem. Soc.* **2021**, 143, 11072–11079.
- 8C. C.O. Blanco, **D.L. Nascimento**, D.E. Fogg.\* Routes to High-Performing Ru-Iodide Catalysts for Olefin Metathesis. *Organometallics*. **2021**, 40, 1811–1816.
- 7C. C.O. Blanco, J. Sims, **D.L. Nascimento**, A.Y. Goudreault, S. Steinmann, C. Michel, D.E. Fogg.\* The Impact of Water on Ru-Catalyzed Olefin Metathesis. *ACS Catal.* **2021**, 11, 893–899.
- 6F. **D.L. Nascimento**, I. Reim, M. Foscato, V.R. Jensen, D.E. Fogg.\* Challenging Metathesis Catalysts with Nucleophiles and Brønsted Base: Examining the Stability of State-of-the-Art Ruthenium Carbene Catalysts to Attack by Amines. *ACS Catal.* **2020**, 10, 11623–11633.
- 5C. A.Y. Goudreault, D. Walden, **D.L. Nascimento**, A.G. Botti, S. Steinmann, C. Michel, D.E. Fogg.\* Hydroxide-Induced Degradation of Olefin Metathesis Catalysts. *ACS Catal.* **2020**, 10, 3838–3843.
- 4C. **D.L. Nascimento**, D.E. Fogg.\* Origin of the Breakthrough Productivity of Ruthenium-CAAC Catalysts in Olefin Metathesis *J. Am. Chem. Soc.* **2019**, 141, 19236–19240.
- 3C. **D.L. Nascimento**, A. Gawin, R. Gawin, P.A. Gunka, J. Zachara, K. Skowerski, D.E. Fogg.\* Integrating Activity with Accessibility in Olefin Metathesis. *J. Am. Chem. Soc.* **2019**, 141, 10626–10631.
- 2C. **D.L. Nascimento**,† C.S. Higman,† B.J. Ireland, G.A. Bailey, R. McDonald, S.A. Audörsch, D.E. Fogg.\* Chelate-Assisted Ring-Closing Metathesis. *J. Am. Chem. Soc.* **2018**, 140, 1604–1607. († Co-first author).
- 1F. **D.L. Nascimento**, E.C Davy, D.E. Fogg.\* Merrifield Resin-Assisted Routes to Second-Generation Catalysts for Olefin Metathesis. *Catal. Sci. Technol.* **2018**, 8, 1535–1544.

## Daniel Luis do Nascimento, Ph. D. – *Curriculum Vitae*

### HONOURS & AWARDS

2022	<b>Pierre Laberge Award</b> Best doctoral thesis in Sciences; University of Ottawa	\$750, certificate
2022	<b>ACS-DIC Young Investigator Symposium Award</b> Awarded by the ACS Inorganic Division; International competition	\$1,400, lecture
2022	<b>Departmental Nominee, University of Ottawa Doctoral Thesis Prize</b> Department of Chemistry and Biomolecular Sciences; University of Ottawa	n/a
2019	<b>Canadian Chemistry Conference Travel Award</b> Selected best abstract to attend the Canadian Chemistry Conference; University of Ottawa	\$2,000
2014	<b>Poster Presentation Honorable Mention</b> 29 <sup>th</sup> Meeting of the Brazilian Society for Experimental Biology	n/a

### RESEARCH AND SCHOLASTIC FUNDING GRANTED

2025	Proposal Preparation Program (Internal – UNCG)	\$3,000
2025	Dorothy Levis Munroe Student Research Grant (Internal – UNCG)	\$1,000
2025	UNCG Incoming Assistant Professor Startup Fund	\$450,000
2025	Conhecimento Brasil “Knowledge Brazil” (Federal – Brazil; offer declined)	\$200,000
2020	University of Ottawa Excellence Scholarship (Departmental – U. Ottawa)	\$9,000
2020	Ontario International Graduate Scholarship (Provincial – Canada)	\$15,000
2020	Baer Scholarship (Departmental – U. Ottawa)	\$3,500
2019/20	Scaiano International Doctoral Scholarship (Departmental – U. Ottawa)	\$20,000
2017	Yu International Entrance Scholarship (Departmental – U. Ottawa)	\$4,000
2016-20	International Admission Scholarship (Departmental – U. Ottawa)	\$31,000/y
2013-14	USA–Brazil International Education Fellowship (Federal – Brazil)	\$83,550
2012-16	Brazilian Council for Science & Technology Fellowship (Federal – Brazil)	\$4,800

### TEACHING & ADVISING EXPERIENCE

**Current Students** (\*Graduate students have until late November to select a research group to join. U = undergraduate student)

4U. Reina Bustamante (Sophomore; Biochemistry major)  
3U. Nora Redinbaugh (Sophomore; Biochemistry major)  
2U. Kavion Foster (Sophomore; Chemistry major)  
1U. Kiefer McHugh (Junior; Chemistry major)

**Prior Students Mentored** (Harvard/uOttawa; G = graduate student; U = undergraduate student)

9U. Theodore Gianoulis (Summer Undergraduate Scholar; Hobart and William Smith Colleges)  
8G. Meghan Sullivan (Before: Timothy Cook’s group; University at Buffalo)  
7U. Ryan Hannon (Honours BSc Thesis; now radiochemist at Centre for Addiction and Mental Health)  
6U. Sambina Belavicqua (Honours BSc Thesis; now Scientific Evaluator, Health Canada)  
5U. Olivia Bezan (Honours BSc Thesis, now researcher at Ontario Diagnostic Centres)  
4U. Maressa Bradshaw (Honours BSc Thesis; now R.N. student, Trent University)  
3U. Daniel Sheldon (BSc, Oxford; now PhD student, Imperial College, London; Crimmin group)  
2U. Mason Guy (NSERC Summer Undergraduate Scholar; now PhD student, UBC; Hein group)  
1U. Stephanie Ton (Honours BSc Thesis; now PhD student, Aarhus, Denmark; Skrydstrup group)

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### Teaching Assistance (University of Ottawa)

- 2017-20 Laboratory Demonstrator, CHM 3350, Transition Metal Chemistry  
2020 Laboratory Demonstrator, CHM 4354, Principles of Instrumental Analysis  
2018/20 Laboratory Demonstrator, CHM 2354, Analytical Chemistry  
2019 Laboratory Demonstrator, CHM2330, Physical Chemistry  
2018 Discussion Group Leader, CHM2353, Descriptive Inorganic Chemistry  
2018 Laboratory Demonstrator, CHM2353, Descriptive Inorganic Chemistry  
2017 Laboratory Demonstrator, CHM1321, Organic Chemistry I  
2016 Laboratory Demonstrator, CHM1311, Principles of Chemistry

### SCHOLARLY PRESENTATIONS (O = oral; P = poster)

- 10P. **D.L. Nascimento**, D.G. Nocera (2024) Photoredox oxidation of light alkanes by monometallic CuO complexes. Organometallic Chemistry Gordon Research Conference, Newport–RI, Jul. 7-12.  
9O. **D.L. Nascimento**, D.E. Fogg (2023) Olefin Metathesis Catalysts: from Decomposition to Redesign. 106<sup>th</sup> Canadian Chemistry Conference, Vancouver–BC, Jun. 3-8.  
8O,P. **D.L. Nascimento**, D.G. Nocera (2022) Alkane Oxidation via a Photoactivated Copper-Oxygen Complex. ACS Fall Conference, Chicago-IL, Aug 21-25.  
7O,P. **D.L. Nascimento**, D.E. Fogg (2022) Advances in Olefin Metathesis: from Catalyst Decomposition to Redesign. ACS Fall Conference, Chicago-IL, Aug 21-25, **Award lecture for ACS Division of Inorganic Chemistry “Young Investigator Award”**  
6O. **D.L. Nascimento**, D.E. Fogg (2020) Integrating Robustness and Productivity in Olefin Metathesis. Ottawa-Carleton Chemistry Institute Day (Virtual), Ottawa, Jun. 4.  
5O. **D.L. Nascimento**, D.E. Fogg (2019) Integrating Catalyst Performance and Accessibility in Olefin Metathesis. 102<sup>nd</sup> Canadian Chemistry Conference, Quebec City, Jun. 3-7.  
4O. **D.L. Nascimento**, D.E. Fogg (2018) H-Bonding-Assisted Metathesis Macrocyclization: Cyclizing Large Rings with Polar Groups. Ottawa-Carleton Chemistry Institute Day, Ottawa, May 22.  
3P. **D.L. Nascimento**, D.E. Fogg (2017) Merrifield Resins as Phosphine Scavengers in Olefin Metathesis. Ottawa-Carleton Chemistry Institute Day, Ottawa, May 25.  
2P. **D.L. Nascimento**, D.E. Fogg (2017) Merrifield Resins as Aids to Synthesis of Metathesis Catalysts. 100<sup>th</sup> Canadian Society for Chemistry Conference, Toronto, May 28-June 1.  
1P. **D.L. Nascimento**, D.E. Fogg (2016) Exploring “Phosphine Sponges” as Aids in Synthesis of Ru Metathesis Catalysts. 49<sup>th</sup> Inorganic Discussion Weekend, Hamilton, Nov. 11-13.

### PARTICIPATION IN COLLABORATION

**Hwang group, Postech, South Korea** (2024 – present): Activation of alkanes by multimetallic Cu complexes.

**Deuss group, University of Groningen, Netherlands** (2020–21): Olefin metathesis in the conversion of lignin-derived substrates.

**Jensen group, University of Bergen, Norway** (2018–21): Catalyst decomposition in olefin metathesis (publications 6F, 9C, 10C).

**Michel group, University of Lyon, France** (2019–21) Impact of water in olefin metathesis (publications 5C, 7C).

**Apeiron Synthesis, Poland** (2018–19): Design of new olefin metathesis catalysts (publication 3C).

**Cunha group, Medical University of Jundiaí, Brazil** (2013–14; undergraduate): Membrane of elastin derived from bovine ear cartilage in therapy of bone regeneration.

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### SCHOLARLY, PROFESSIONAL AND VOLUNTEERING SERVICES

- 2025- Co-organizer, “Careers after UNGC” discussion panel.
- 2025 UNGC Chemistry and Biochemistry Dept. representative, 76<sup>th</sup> SERMACS (Southeastern Regional Meeting of the American Chemical Society) Graduate Student Fair. Orlando, FL.
- 2025 Advisor to the Collaborative Research and Engagement for Sustainable Technologies (CREST) program (Joint Scholl of Nanoscience and Noneengineering – JSNN)
- 2025 UNGC Chemistry and Biochemistry Department – Graduate Student Committee
- 2024 Volunteer Student Leader of Harvard’s Chemistry Club
- 2022-23 Chair of Harvard CCB – graduate students and postdocs council for invited speakers
- 2023 Volunteer liaison for prospective postdoctoral fellows with underrepresented backgrounds in STEM as part of the Harvard CCB Equity, Diversity, Inclusion and Belonging (EDIB) committee
- 2023 Volunteer of discussion panel “Choosing and Completing Graduate School for Underrepresented Minority Prospective Students”
- 2023 Poster evaluator at 106<sup>th</sup> Canadian Chemistry Conference, Vancouver, Jun. 3-8
- 2023 Member of organizing committee for Harvard CCB symposium, Cambridge, Aug. 31
- 2023 Poster evaluator at Harvard CCB symposium, Cambridge, Aug. 31

### PRESS

Featured as an *outstanding student* for two years running in U. Ottawa’s annual research report (2017 & 2021: <https://www.uottawa.ca/faculty-science/research-publications/annual-reports>; <https://www.uottawa.ca/faculty-science/news-all/doing-more-less-realizing-potential-olefin-metathesis-greener-future>)

Research article featured as “Hot article” and “Peak of the week” by Chemical Science editorial team (<https://pubs.rsc.org/en/journals/articlecollectionlanding?sercode=sc&themeid=ba97f10a-8118-4cf6-9e56-620d1d217010>; publication 10C)