

Daria Kurandina

Postdoctoral Scholar
Prof. Omar M. Yaghi Research Group
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Education

Ph.D., Organic Chemistry	University of Texas at Dallas	2019 – 2020
Ph.D. Candidate, Organic Chemistry	University of Illinois at Chicago	2014 – 2019
B.S. Chemistry (Honors)	St. Petersburg State University	2009 – 2014

Awards & Scholarships

- Eugene McDermott Graduate Fellowship 2019 – 2020
- TexSyn IV Speed Talk Award
TexSyn IV Conference May 2019
- The Moriarty Graduate Fellowship 2018 – 2019
- “Analyt-Shimadzu” Scholarship 2014
- Diploma III
Tournament “ChemCamp 2013” – International Student Forum April 2013
- Diploma III
International Natural Science Tournament November 2012
- Outstanding Poster Award from *Organometallics*
International Symposium “Frontiers of Organometallic Chemistry” September 2012
- The Academic Scholarship for Outstanding Students 2011 – 2014

Positions

Graduate Research Assistant 2014 – 2020
Advisor: Prof. Vladimir Gevorgyan
*University of Texas at Dallas/
University of Illinois at Chicago*

Projects:

- Remote Functionalization Reactions
- Visible Light-Induced Palladium-Catalyzed Reactions
- Reactions of Rhodium Carbenes Derived from Azoles

Teaching Assistant
Courses Taught: General Chemistry I and II

2014 – 2017
University of Illinois at Chicago

Undegraduate Research Assistant
Advisor: Prof. Vadim Boyarskiy

2012 – 2014
St. Petersburg State University

Project:

- Copper-Catalyzed C–N Cross-Coupling Reactions in Aqueous Medium

Publications

- Cheung, K.P.S.; **Kurandina, D.**; Yata, T.; Gevorgyan, V. “Photoinduced Palladium-Catalyzed Carbonylfunctionalization of Conjugated Dienes Proceeding via Radical-Polar Crossover Scenario: 1,2-Aminoalkylation and Beyond.” *J. Am. Chem. Soc.* **2020**, *142*, 9932–9937. DOI: <https://doi.org/10.1021/jacs.0c03993>.
- **Kurandina, D.**; Yadagiri, D.; Rivas, M.; Kavun, A.; Chuentragool, P.; Hayama, K.; Gevorgyan, V. “Transition-Metal- and Light-Free Directed Amination of Remote Unactivated C(sp³)–H Bonds of Alcohols.” *J. Am. Chem. Soc.* **2019**, *141*, 8104–8109. DOI: 10.1021/jacs.9b04189.
- **Kurandina, D.**; Chuentragool, P.; Gevorgyan, V. “Transition-Metal-Catalyzed Alkyl Heck-Type Reactions.” *Synthesis* **2019**, *51*, 985–1005. DOI: 10.1055/s-0037-1611659. (Published as part of the 50 Years SYNTHESIS – Golden Anniversary Issue)
- Chuentragool, P.; **Kurandina, D.**; Gevorgyan, V. “Catalysis by Visible Light Photoexcited Palladium Complexes.” *Angew. Chem., Int. Ed.* **2019**, *58*, 2–15. DOI: 10.1002/anie.201813523. (Minireview)
- **Kurandina, D.**; Rivas, M.; Radzhabov, M.; Gevorgyan, V. “Heck Reaction of Electronically Diverse Tertiary Alkyl Halides.” *Org. Lett.* **2018**, *20*, 357–360. DOI: 10.1021/acs.orglett.7b03591.
- **Kurandina, D.**; Parasram, M.; Gevorgyan, V. “Visible Light-Induced Room-Temperature Heck Reaction of Functionalized Alkyl Halides with Vinyl Arenes/Heteroarenes.” *Angew. Chem., Int. Ed.* **2017**, *56*, 14212–14216. (Hot Paper). DOI: 10.1002/anie.201706554.
- **Kurandina, D.**; Gevorgyan, V. “Rhodium Thiavinyl Carbenes from 1,2,3-Thiadiazoles Enable Modular Synthesis of Multisubstituted Thiophenes.” *Org. Lett.* **2016**, *18*, 1804–807. DOI: 10.1021/acs.orglett.6b00541.
- **Kurandina, D. V.**; Eliseenkov, E. V.; Khaibulova T. Sh.; Petrov, A. A.; Boyarskii, V. P. “Effect of the Structural Factors on Reactivity of Aryl Halides in Copper-Catalyzed Arylation of Aniline in Aqueous Medium.” *Russ. J. Gen. Chem.* **2015**, *85*, 2277–2281. DOI: 10.1134/S1070363215100096.
- **Kurandina, D. V.**; Eliseenkov, E. V.; Khaibulova, T. Sh.; Petrov, A. A.; Boyarskiy, V. P. “Copper-catalyzed C-N bond cross-coupling of aryl halides and amines in water in the presence of ligand derived from oxalyl dihydrazide: scope and limitation.” *Tetrahedron* **2015**, *71*, 7931–7937. DOI: 10.1016/j.tet.2015.07.071.
- **Kurandina, D. V.**; Eliseenkov E. V.; Ilyin, P. V.; Boyarskiy. V. P. “Facile and convenient synthesis of aryl hydrazines via copper-catalyzed C-N cross-coupling of aryl halides and hydrazine hydrate.” *Tetrahedron* **2014**, *70*, 4043–4048. DOI: 10.1016/j.tet.2014.04.048.
- Savicheva, E. A.; **Kurandina, D. V.**; Nikiforov, V. A.; Boyarskiy. V. P. “Hydrazinoaminocarbene–palladium complexes as easily accessible and convenient catalysts for copper-free Sonogashira reactions.” *Tetrahedron Lett.* **2014**, *55*, 2101–2103. DOI: 10.1016/j.tetlet.2014.02.044.

- **Kurandina, D. V.**; Eliseenkov, E. V.; Petrov, A. A.; Boyarskiy, V. P. “*N*(2)-Monosubstituted bishydrazides of oxalic acid as new efficient components of the system for the copper-catalyzed C–N cross-coupling in water.” *Russ. Chem. Bull., Int. Ed.* **2012**, *61*, 1009–1013. DOI: 10.1007/s11172-012-0130-6.

Oral Presentations

- “Transition-Metal- and Light-Free Directed Amination of Remote Unactivated C(sp³)–H Bonds of Alcohols” *May 20, 2019*
Waco, TX
Kurandina, D., Yadagiri, D., Rivas, M., Kavun, A., Chuentragool, P., Hayama, K., Gevorgyan, V.
TexSyn IV (invited speed talk)
- “Transition-Metal- and Light-Free Directed Amination of Remote Unactivated C(sp³)–H Bonds of Alcohols” *May 1–4, 2019*
Lisle, IL
Kurandina, D., Yadagiri, D., Rivas, M., Kavun, A., Chuentragool, P., Hayama, K., Gevorgyan, V.
2019 Great Lakes Regional Meeting
- “General Visible Light-Induced Pd-Catalyzed Room Temperature Alkyl-Heck Reaction” *July 26–29, 2018*
Bloomington, IN
Kurandina, D.; Parasram, M.; Rivas, M.; Radzhabov, M.; Gevorgyan, V.
DOC Graduate Research Symposium – Indiana University (invited oral presentation)

Posters Presentations

- “General Visible Light-Induced Pd-Catalyzed Room Temperature Alkyl-Heck Reaction” *October 20, 2018*
Chicago, IL
Kurandina, D., Parasram, M., Rivas, M., Radzhabov, M., Gevorgyan, V.
UIC Chemistry Graduate Student Symposium
- “General Visible Light-Induced Pd-Catalyzed Room Temperature Alkyl-Heck Reaction” *July 15–20, 2018*
Easton, MA
Kurandina, D., Parasram, M., Rivas, M., Radzhabov, M., Gevorgyan, V.
Organic Reactions and Processes, Gordon Research Conference
- “Visible Light-Induced Room-Temperature Heck Reaction of Functionalized Alkyl Halides with Vinyl Arenes/Heteroarenes” *April 12–13, 2018*
West Lafayette, IN
Kurandina, D., Parasram, M., Gevorgyan, V.
The 35th HC Brown Lectures – Purdue University
- “Visible Light-Induced Room-Temperature Heck Reaction of Functionalized Alkyl Halides with Vinyl Arenes/Heteroarenes” *October 19, 2017*
Chicago, IL
Kurandina, D., Parasram, M., Gevorgyan, V.
UIC Chemistry Graduate Student Symposium

- “Visible Light-Induced Room-Temperature Heck Reaction of Functionalized Alkyl Halides with Vinyl Arenes/Heteroarenes”
Kurandina, D., Parasram, M., Gevorgyan, V.
Chicago Organic Symposium *September 30, 2017*
Chicago, IL
- “A new effective method for the synthesis of aryl hydrazines via copper-catalyzed *N*-arylation of hydrazine hydrate”
Kurandina, D. V., Eliseenkov, E. V., Petrov, A. A., Boyarskii, V. P.
The Organic Chemistry Conferences “OrgChem 2013” *June 17–21, 2013*
St. Petersburg, Russia
- “The influence of substrate structures on their reactivity in copper-catalyzed C–N cross-coupling reactions”
Kurandina, D. V., Eliseenkov, E. V., Petrov, A. A., Boyarskii, V. P.
The 7th Russian conference of young scientists and students with international participation in chemistry and nanomaterials “Mendeleev 2013” *April 2–6, 2013*
St. Petersburg, Russia
- “*N*²-Monosubstituted oxalic acid bishydrazides: novel effective ligands for copper-catalyzed cross-coupling reactions in water”
Kurandina, D. V., Eliseenkov, E. V., Petrov, A. A., Boyarskii, V. P.
International Symposium “Frontiers of Organometallic Chemistry” *September 21–22, 2012*
St. Petersburg, Russia
- “Synthesis of *N*-arylmorpholines via copper-catalyzed C–N cross-coupling reactions”
Kurandina, D. V., Eliseenkov, E. V., Petrov, A. A., Boyarskii, V. P.
The Russian Science Conference “Advances in synthesis and complexation” *April 23–27, 2012*
Moscow, Russia
- “Copper-catalyzed arylation of anilines and heterocyclic secondary amines in water with the use of new ligands – *N*²-Monosubstituted oxalic acid bishydrazides”
Kurandina, D. V., Eliseenkov, E. V., Petrov, A. A., Boyarskii, V. P.
The 6th Russian Conference of Young Scientists and Students “Mendeleev 2012” *April 3–7, 2012*
St. Petersburg, Russia