



## Jacob E. Dander

PATENT AGENT

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Jacob Dander is a Patent Agent at Haley Guiliano, where his practice focuses on drafting and prosecuting patent applications for pharmaceutical, biotechnology, and other life sciences clients. He also has experience assisting clients with due diligence investigations, as well as competitive patent landscape and freedom-to-operate analyses.

Prior to joining the firm, Jacob completed his Ph.D. at the University of California, Los Angeles, where he studied organic chemistry. His doctoral research focused on the development of new synthetic methodologies and the total synthesis of complex molecules. Utilizing nickel catalysis, he discovered new cross-coupling reactions of amides, which are an underutilized building block in synthetic chemistry. In collaboration with industrial scientists, he led efforts to commercialize new preparations of organometallic reagents and to discover transformations that blend transition-metal and enzymatic catalysts. Additionally, he designed and pursued the total synthesis of complex hydrocarbons with applications in materials science.

Jacob earned his B.S. degree in chemistry from Illinois College in 2015. As an undergraduate, he researched the total synthesis of anti-cancer agents, and completed a summer internship at Eli Lilly & Co., where he studied the asymmetric synthesis of advanced drug intermediates.

## Related Practice Areas

- Patents
- Patent Preparation and Prosecution
- Due Diligence
- Freedom to Operate/ Third Party Risk Assessment

## Related Industries

- Pharmaceuticals and Chemicals
- Biotechnology
- Medical Devices

## Publications

- T. B. Boit, A. S. Bulger, J. E. Dander, and N. K. Garg, *Activation of C=O and C=N Bonds Using Non-Precious-Metal Catalysis*, ACS Catalysis, 2020, 10, 12109-12126.
- M. M. Mehta, T. B. Boit, J. E. Dander, and N. K. Garg, *Ni-Catalyzed Suzuki–Miyaura Cross-Coupling of Aliphatic Amides on the Benchtop*, Organic Letters 2020, 22, 1–5.
- J. E. Dander, M. Giroud, S. Racine, E. R. Darzi, O. Alvizo, D. Entwistle, and N. K. Garg, *Chemoenzymatic Conversion of Amides to Enantioenriched Alcohols in Aqueous Medium*, Communications Chemistry 2019,

2, 82.

- J. E. Dander, *From Group Meeting to the Bench: A Chemoenzymatic Approach to Enantioselective Transformations of Amides*, Nature Research Chemistry Community 2019. <https://go.nature.com/2LHwEGm>
- J. E. Dander, L. A. Morrill, M. M. Nguyen, S. Chen, and N. K. Garg, *Breaking Amide C–N Bonds in an Undergraduate Organic Chemistry Laboratory*, Journal of Chemical Education 2019, 96, 776–780.
- J. E. Dander, E. L. Baker, and N. K. Garg, *Nickel-Catalyzed Transamidation of Aliphatic Amide Derivatives*, Chemical Science 2017, 8, 6433–6438.
- M. Sato, J. E. Dander, C. Sato, Y.-S. Hung, S.-S. Goa, M.-C. Tang, L. Hang, J. M. Winter, N. K. Garg, K. Watanabe, and Y. Tang, *Collaborative Biosynthesis of Maleimide- and Succinimide-Containing Natural Products by Fungal Polyketide Megasyntases*, Journal of the American Chemical Society, 2017, 139, 5317–5320.
- J. E. Dander and N. K. Garg, *Breaking Amides Using Nickel Catalysis* (Literature Review), ACS Catalysis 2017, 7, 1413–1423.
- J. E. Dander, N. A. Weires, and N. K. Garg, *Benchtop Delivery of Ni(cod)<sub>2</sub> Using Paraffin Capsules*, Organic Letters, 2016, 18, 3934–3936.
- B. J. Simmons, N. A. Weires, J. E. Dander, and N. K. Garg, *Nickel-Catalyzed Alkylations of Amide Derivatives*, ACS Catalysis, 2016, 6, 3176–3179.

## Memberships

- American Intellectual Property Law Association - Junior Member

## Honors & Awards

- National Science Foundation Graduate Research Fellow - 2017-2020
- Boehringer Ingelheim Dissertation Award for Excellence in Organic Chemistry - University of California, Los Angeles, 2020
- Excellence in 2nd Year Academics and Research, University of California, Los Angeles, 2018
- National Institutes of Health Biotechnology Predoctoral Trainee - 2016-2017
- Foote Fellow, University of California, Los Angeles, 2015-2017
- American Institute of Chemists Outstanding Senior Aware, Illinois College, 2015

## Education

- Ph.D., Organic Chemistry, 2020, University of California, Los Angeles
- M.S., Organic Chemistry, 2017, University of California, Los Angeles
- B.S., Chemistry, 2015, Illinois College, *summa cum laude*