



## Daniel Norbert Congreve

Assistant Professor of Electrical Engineering

### Bio

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#### BIO

Dan is an Assistant Professor in the Department of Electrical Engineering at Stanford University. Prior to Stanford, Dan received his B.S. and M.S. from Iowa State in 2011, working with Vik Dalal studying defect densities of nano-crystalline and amorphous silicon. He then received his PhD from MIT in Electrical Engineering in 2015, studying under Marc Baldo. His thesis work focused on photonic energy conversion using singlet fission and triplet fusion as downconverting and upconverting processes, respectively. He spent a year as a postdoc with Will Tisdale in Chemical Engineering at MIT studying perovskite nanoplatelets. He joined the Rowland Institute in 2016 as a Rowland Fellow before starting at Stanford in 2020. Dan is a Moore Inventor Fellow, Sloan Research Fellow, Intel Rising Star, and co-founder of Quadratic3D, a startup looking to commercialize 3D printing technologies. He is a recipient of the Army Early Career Program Award, the NSF CAREER Award, and the EE Chair's Award for Outstanding Contributions to Undergraduate Education. His current research interests focus on controlling nanoscale materials for energy, sustainability, and manufacturing applications.

#### ACADEMIC APPOINTMENTS

- Assistant Professor, Electrical Engineering

#### HONORS AND AWARDS

- CAREER Award, National Science Foundation (2026)
- Army Research Office Early Career Program Awardee, Army Research Office (2024)
- MRS Communications Early Career Distinguished Presenter, Materials Research Society (2024)
- EE Chair's Award for Outstanding Contributions to Undergraduate Education, Electrical Engineering Department (2023)
- Intel Rising Star, Intel (2023)
- Sloan Research Fellow, Alfred P. Sloan Foundation (2022)
- Moore Inventor Fellow, Gordon and Betty Moore Foundation (2019)
- Rowland Fellow, Rowland Institute at Harvard University (2016-2020)

#### PROGRAM AFFILIATIONS

- Stanford SystemX Alliance

#### PROFESSIONAL EDUCATION

- PhD, Massachusetts Institute of Technology , Electrical Engineering (2015)
- MS, Iowa State University , Electrical Engineering (2011)
- BS, Iowa State University , Electrical Engineering (2010)

## Teaching

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### COURSES

#### 2025-26

- Introduction to Photonics: EE 134 (Win)
- Modern Optics: EE 236A (Aut)
- Solar Energy Conversion: EE 237 (Spr)
- Solar Energy Conversion Laboratory: EE 237L (Spr)

#### 2024-25

- Introduction to Photonics: EE 134 (Win)
- Modern Physics for Engineers: EE 65, ENGR 65 (Spr)

#### 2023-24

- Modern Optics: EE 236A (Aut)
- Solar Energy Conversion: EE 237 (Spr)

#### 2022-23

- Introduction to Photonics: EE 134 (Win)
- Modern Physics for Engineers: EE 65, ENGR 65 (Spr)

### STANFORD ADVISEES

#### Doctoral Dissertation Reader (AC)

Nahal Bagheri, Han Cui, Zhiqiao Jiang, Eleanor Quirk, Wei Ren, Yixuan Shao, Jackie Yang

#### Postdoctoral Faculty Sponsor

Ona Segura Lecina

#### Doctoral Dissertation Advisor (AC)

Tyler Colenbrander, Arynn Gallegos, Linda Lin, Divine Mbach, Pournima Narayanan, Linda Pucurimay, Qi Zhou

#### Master's Program Advisor

Adri Kornfein, Alex Sun

#### Doctoral (Program)

Tyler Colenbrander, Junrui Lyu, Divine Mbach, Natalia Murrietta, Erik Porter, Qi Zhou