



Daniel Norbert Congreve

Assistant Professor of Electrical Engineering

Bio

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. His current research interests focus on engineering nanomaterials to solve challenging problems.

ACADEMIC APPOINTMENTS

- Assistant Professor, Electrical Engineering

HONORS AND AWARDS

- 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

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

Postdoctoral Faculty Sponsor

Ona Segura Lecina

Doctoral Dissertation Advisor (AC)

Arynn Gallegos, Linda Lin, Pournima Narayanan, Linda Pucurimay, Qi Zhou

Master's Program Advisor

Adri Kornfein, Alex Sun

Doctoral (Program)

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