

Stanford



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 a downconverting and upconverting process, 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 2019 Moore Inventor Fellow, 2020 Terman Faculty Fellow, 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

- Seed Grant, SystemX Alliance (2021)
- Terman Faculty Fellow, Stanford University (2020-2023)
- Moore Inventor Fellow, Gordon and Betty Moore Foundation (2019)
- Rowland Fellow, Rowland Institute at Harvard University (2016-2020)

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

2021-22

- Basic Physics for Solid State Electronics: EE 228 (Win)
- Introduction to Photonics: EE 134 (Aut)
- Solar Energy Conversion: EE 237 (Spr)

2020-21

- Introduction to Photonics: EE 134 (Aut)
- Introductory Research Seminar in Electrical Engineering: EE 301 (Aut)
- Solar Energy Conversion: EE 237 (Spr)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Austin Flick, Maliha Noshin

Postdoctoral Faculty Sponsor

Ghada Ahmed, Tracy Schloemer

Doctoral Dissertation Advisor (AC)

Sebastian Fernandez, Arynn Gallegos, Manchen Hu, Pournima Narayanan

Master's Program Advisor

Ahmed Abdalla, Junrui Lyu

Doctoral (Program)

Manchen Hu, Erik Porter