

# Stanford

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## Jiaqi Jiang

- Ph.D. Student in Electrical Engineering, admitted Autumn 2017
- Ph.D. Minor, Computer Science

### Publications

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#### PUBLICATIONS

- **Deep neural networks for the evaluation and design of photonic devices** *NATURE REVIEWS MATERIALS*  
Jiang, J., Chen, M., Fan, J. A.  
2020
- **Design Space Reparameterization Enforces Hard Geometric Constraints in Inverse-Designed Nanophotonic Devices** *ACS PHOTONICS*  
Chen, M., Jiang, J., Fan, J. A.  
2020; 7 (11): 3141–51
- **Robust Freeform Metasurface Design Based on Progressively Growing Generative Networks** *ACS PHOTONICS*  
Wen, F., Jiang, J., Fan, J. A.  
2020; 7 (8): 2098–2104
- **MetaNet: a new paradigm for data sharing in photonics research** *OPTICS EXPRESS*  
Jiang, J., Lupoiu, R., Wang, E. W., Sell, D., Hugonin, J., Lalanne, P., Fan, J. A.  
2020; 28 (9): 13670–81
- **Free-Form Diffractive Metagrating Design Based on Generative Adversarial Networks.** *ACS nano*  
Jiang, J., Sell, D., Hoyer, S., Hickey, J., Yang, J., Fan, J. A.  
2019
- **Global Optimization of Dielectric Metasurfaces Using a Physics-Driven Neural Network.** *Nano letters*  
Jiang, J., Fan, J. A.  
2019
- **Simulator-based training of generative neural networks for the inverse design of metasurfaces** *Nanophotonics*  
Jiang, J., Fan, J. A.  
2019