

## 16-848 Reference List for February 28, 2022

We focused on the following paper:

Xu, Jie, Tao Chen, Lara Zlokapa, Michael Foshey, Wojciech Matusik, Shinjiro Sueda, and Pulkit Agrawal. "An end-to-end differentiable framework for contact-aware robot design." *arXiv preprint arXiv:2107.07501* (2021). <http://diffhand.csail.mit.edu/>

The research projects I described first can be found here:

Hazard, Christopher, Nancy Pollard, and Stelian Coros. "Automated design of robotic hands for in-hand manipulation tasks." *International Journal of Humanoid Robotics* 17, no. 01 (2020): 1950029.

[http://graphics.cs.cmu.edu/nsp/papers/Automated\\_Design\\_Robot\\_Hands\\_IJHR2020.pdf](http://graphics.cs.cmu.edu/nsp/papers/Automated_Design_Robot_Hands_IJHR2020.pdf)

Meixner, Andre, Christopher Hazard, and Nancy Pollard. "Automated Design of Simple and Robust Manipulators for Dexterous In-Hand Manipulation Tasks using Evolutionary Strategies." In *2019 IEEE-RAS 19th International Conference on Humanoid Robots (Humanoids)*, pp. 281-288. IEEE, 2019.

<http://graphics.cs.cmu.edu/nsp/papers/MeixnerHumanoids2019.pdf>