MILES CHAN
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EDUCATION

6/20 M.S. Aeronautics, California Institute of Technology -/-
5/19 B.S. Mechanical Engineering, Georgia Institute of Technology *3.89/4.00*

RESEARCH EXPERIENCE

5/17 – 5/19 Researcher, Hu Biolocomotion Lab, Georgia Institute of Technology
1/15 – 12/15 Researcher, INTACT Lab, Georgia Institute of Technology

INDUSTRY EXPERIENCE

8/17 – 12/17 Stress Analyst, Honda Aircraft Company
1/17 – 5/17 Flight Sciences Analyst, Honda Aircraft Company
5/16 – 8/16 Design Engineer, Honda Aircraft Company
5/15 – 8/15 Robotics Alliance Project Intern, NASA Ames Research Center

INSTRUCTIONAL EXPERIENCE

5/17 – 1/19 Waterjet Master, Invention Studio at Georgia Tech
8/18 – 12/18 Grader, Fluid Mechanics
5/18 – 8/18 Tutor, Heat Transfer
4/15 Guest Lecturer, Introduction to Computer Graphics and Visualization

AWARDS AND HONORS

4/19 National Science Foundation Graduate Research Fellowship Honorable Mention
5/18 Georgia Tech President's Undergraduate Research Award
11/16 Hack-a-Thing Competition Innovation Award
5/16 Invention Studio Prototyping Instructor of the Semester Award
8/15 Georgia Tech President's Undergraduate Research Award

PRESENTATIONS

Chan, M., Yang, P., Zhang, A., Martin, A., Edwards, A., Carver, S., and Hu, D. (2018, November). *How do wombats make cubic scat?* Proceedings of the 2018 Southeastern Region Society for Integrative and Comparative Biology, Clemson, SC.

Yang, P., **Chan, M.**, Zhang, A., Martin, A., Edwards, A., Carver, S., and Hu, D. (2018, November). *How do wombats make cubed poo?* Proceedings of the 71st Annual Meeting of the American Physical Society Division of Fluid Dynamics, Atlanta, GA.

Chan, M. (2018, July). *Wombats make cubic feces.* Presentation at the Summer 2018 Hu Lab Symposium, Atlanta, GA.

Chan, M. (2018, May). *Speed Measurement with an Anemometer.* Presentation at the Spring 2018 Hu Lab Symposium, Atlanta, GA.

Chan, M. and Krishnaswamy, V. (2015, May). *3D Models for Soft Muscle Tissue Analysis.* Poster session presented at the 10th Annual Undergraduate Research Spring Symposium, Atlanta, GA.

HONOR SOCIETIES

Tau Beta Pi, National Engineering Honor Society
Pi Tau Sigma, Mechanical Engineering Honor Society

VARIOUS PROJECTS

8/18 – Motor glider design study
8/18 – 12/18 Load carrying 4-wheel robot for agricultural applications
5/18 – 8/18 Small UAV flight stabilization and autopilot
5/18 – 7/18 Custom PID control of propeller pendulum
10/16 – 11/16 Compliant robotic handling of dissimilar objects
1/16 – 5/16 Fruit ripeness evaluation using NIR spectroscopy

SKILLS

Scientific Computing: MATLAB, Simulink, Python, R, Latex
Programming: JAVA, Arduino, HTML, CSS, Jekyll, iNav
Software: SolidWorks, Autodesk Inventor, Fusion 360, XFOIL, AVL, ANSYS Fluent, ImageJ, FEMAP, NASTRAN, Microsoft Office, EndNote
Hardware: waterjet, laser cutter, mill, lathe, 3D printing, CNC router, soldering, hand tools, DSLR

OTHER

Hobbies: model airplanes, violin performance, running, swimming
Citizenship: United States
Languages: English *native*, French *intermediate*

REFERENCES

Provided upon request