NSF Biographical Sketch

Michael Andrew Jansen
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Professional Preparation

University of Florida	Gainesville, FL	Entomology and Nematology [B.Sc.]	2007-2011
Arizona State University	Tempe, AZ	Biology [M.Sc.]	2012-2014
Arizona State University	Tempe, AZ	Evolutionary Biology [M.Sc.]	2014-2017
Arizona State University	Tempe, AZ	Evolutionary Biology [Ph.D.]	2014-2019

Professional Appointments

Teaching Appointments

Course	Subject	Semester	Position
BIO 386	Entomology	Fall - 2018	Instructor
BIO 201	Human Anatomy and Physiology	Spring - 2017	Teaching Assistant
BIO 281	Biology (1st Semester)	Fall - 2016	Teaching Assistant
BIO 182	Biology (2nd Semester)	Summer - 2016	Teaching Assistant
BIO 181	Biology (1st Semester)	Spring - 2016	Teaching Assistant
BIO 386	Entomology	Fall - 2015, 2014, 2013	Teaching Assistant
BIO 282	Biology (2nd Semester for Majors)	Spring 2014	Teaching Assistant

Research Fellowships

2019 ASU School of Life Sciences Completion Fellowship
2018 ASU Biomimicry Center Fellowship
2017 ASU Evolutionary Biology Doctoral Program Summer Fellowship

Publications

Jansen, M.A. & N.M. Franz. 2018. Descriptions of four new species of *Minyomerus* Horn, 1876 (Coleoptera: Curculionidæ), with notes on their distribution and phylogeny. *PeerJ.* 6: e5633.

Jansen, M.A., Luck, K., Campbell, J., Amor, H.B., & D. Aukes. 2017. Bio-inspired robot design considering load-bearing and kinematic ontogeny of Chelonioidea sea turtles. In *Biomimetic and Biohybrid Systems.* p. 216-229

Luck, K., *Jansen, M.A.*, Campbell, J., Aukes, D., & H.B. Amor. 2017. From the lab to the desert: fast prototyping and learning of robot locomotion. *Robotics: Science and Systems. Proceedings of Robotics: Science and Systems.* 13: p. 75-83.

Jansen, M.A., Singh, S.S., Chawla, N., & N.M. Franz. 2016. A multilayer micromechanical model of the cuticle of *Curculio longinasus* Chittenden, 1927 (Coleoptera: Curculionidæ). *Journal of Structural Biology.* 195: p. 139-158.

Singh, S.S., *Jansen, M.A.*, Franz, N.M., & N. Chawla. 2016. Microstructure and nanoindentation of the rostrum of *Curculio longinasus* Chittenden, 1927 (Coleoptera: Curculionidæ). *Materials Characterization.* 118: p. 206-211.

Synergistic Activities

- Served as biological/biomimicry research specialist on animal communication mechanisms 2018-2019
  Collaboration with ASU Biomimicry Center and Google Advanced Technology and Projects
- Co-founded Western Entomological Supply and Western Innovation Research Group 2017-2019
  Design, production, and sale of supplies for mounting and curation of research specimens
  All designs under MIT License © 2018, available at: github.com/western-entomological
- Design, prototyping, and field-testing of autonomous, biomimietic robotic sand-crawlers 2016-2019
  C-Turtle - V1.0 design under CC BY 4.0, available at: sites.google.com/view/c-turtle/
- US patent application for systems and methods for rapid-prototyped robotic devices. 2017-2018
  US Patent App. No. 16/215,910. Filed 11 Dec 2018. *US Patent App. No. 62/597,276* Filed 11 Dec 2017.