

Ryan Kurasaki
College of Tropical Agriculture and Human Resources
Department of Molecular Biosciences and Bioengineering
FTE Distribution: 70%I; 0%R; 30%E

Education

<u>Degree</u>	<u>University</u>	<u>Major</u>
Bachelors	University of Hawaii at Manoa	Biosystems Engineering
Masters	University of Hawaii at Manoa	Biosystems Engineering

Professional Appointments

<u>Title</u>	<u>Employer</u>	<u>Dates Employed</u>
Junior Specialist	University of Hawaii at Manoa	2017 to Present
Facilities Plan & Design	University of Hawaii at Manoa	2008 to 2017
Research Associate	University of Hawaii at Manoa	2005 to 2008

Courses Taught

<u>Course ID and name (credits)</u>	
BE 350	Dynamic Systems Modeling (3)
BE 350L	Dynamic Systems Modeling Lab (1)
BE/CEE 405	Engineering Economics (3)
BE 481	Senior Engineering Design I (3)
BE 482	Senior Engineering Design II (3)

Publications

Refereed Journal Publications

Ningyang, L., Han, Z., O'Donnell, T.J., Kurasaki, R., Kajihara, L., Williams, P.G., Tang, Y., Su, W.W. (2020) Production and excretion of astaxanthin by engineered *Yarrowia lipolytica* using plant oil as both the carbon source and the biocompatible extractant. *Applied Microbiology and Biotechnology*. 104. 10.1007/s00253-020-10753-2.

Jenkins, D.M. and Kurasaki, R. (2018). ABEVIEW: Android Interface for Wireless Data Acquisition and Control. *Sensors*. 18(8), 2647.

Nihous, G., Kuroda, K., Lobos-Gonzalez, J., Kurasaki, R., Masutani, S. (2010). An analysis of gas hydrate dissociation in the presence of thermodynamic inhibitors. *Chemical Engineering Science*. 65(5). 1748-1761.

Extension Publications

Kurasaki, R., Byrd, M., and Kobayashi, K. (2023). Low-Cost Light Sensors for Indoor Agriculture. *College of Tropical Agriculture and Human Resources Extension Publications*.
<http://www.ctahr.hawaii.edu/oc/freepubs/pdf/FST-68.pdf>

Kurasaki, R. and Naruse, K. (2023). Calibration of Humidity Sensors for Agriculture. *College of Tropical Agriculture and Human Resources Extension Publications*.
<https://www.ctahr.hawaii.edu/oc/freepubs/pdf/FST-70.pdf>

Kurasaki, R. and Amoroso, K. (2023). Automation of LED Grow Light Control. *College of Tropical Agriculture and Human Resources Extension Publications*.
<http://www.ctahr.hawaii.edu/oc/freepubs/pdf/FST-71.pdf>

Leadership Roles (Committees, Boards, Advisory, etc.)

Hawaii Section Chair of the American Society of Agricultural and Biological Engineers (2021 – Present)
Excellence in Academic Advising (2018 – 2021)
Waipahu High School Natural Resources Advisory Board (2021 – Present)
Meeting Pattern Advisory Committee (2019 – 2020)
Biological Engineering Student Association – Advisor (2018 – Present)
Building Coordinator – Agricultural Engineering Institute (2017 – Present)

Research Support

Jenkins, D., Arif, M., and **Kurasaki, R.** (Co-I) *Portable Scaled Sample Preparation Device for Concentration and Recovery of Bacterial Contaminants*.

- HEALTH & HUMAN SVC, DEPT-NIH-FED
- Amount \$259,553 (Subrecipient \$85,603); Years 2023-2024

Presentations at Conferences

Title: Scaffolding and Assessing Engineering Design: Effecting Program Change from Course Innovations

Author: Kurasaki, R.*

Name of Conference: Assessment for Curricular Improvement Poster Exhibit

Location: Honolulu, HI

Date of Presentation: 04/2019

Title: An investigation of ambient drying of Eucalyptus grandis logs.

Authors: Harris, D., Turn, S., Kurasaki, R., and Kinoshita, C.*

Name of Conference: International Commission of Agricultural and Biosystems Engineering World of Congress Conference

Location: Antalya, Turkey

Date of Presentation: 04/2018