

# Jordan B. Callaham

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## Education

**Masters of Agriculture in Animal Science, August 2008**  
University of Florida, Gainesville, FL

**Bachelor of Science in Horticulture, May 2007**  
University of Florida, Gainesville, FL

## Professional Positions

*February 2014 to present* University of Florida, Horticultural Sciences Department. Gainesville, FL.

### Research Coordinator II

UF Space Plants Laboratory of Robert J. Ferl, Ph. D. & Anna-Lisa Paul, Ph. D.

- Experimental design and implementation of personal as well as lab-wide and collaborated experiments. Research included effects of hypoxic conditions on plants, effects of hypobaric conditions on plants and investigations on the effects of microgravity on plants. Each experiment requires extensive planning and preparation to complete.
- Lab duties included fluorescent microscopy, plant growth, plant transformation, PCR, RNA extractions, and Sterile technique.
- Media and Outreach management
- Federal grant management and capital procurement.

*May 2008 to September 2013*

*4-H Youth Development IFAS Extension Program*

### State 4-H Events Coordinator

Florida 4-H State Headquarters

- Coordination of State, Regional and National Events. Represent Florida 4-H on the National 4-H Congress Design Team as Chair of Operations Committee.
- Maintain calendars, registration pages, and other supporting documents. Work with University of Florida faculty in support of state events.
- Provide support and resources for policy and decision-making department faculty. Advise and educate county faculty on the rules and regulations of state 4-H events and departmental policy.
- Coordinated travel and on site needs of speakers at events including the Florida Commissioner of Agriculture, Florida Legislators and University of Florida Deans.
- Management of office staff and resources including a annual budget of \$250,000 as well as individual budgets ranging from \$1,500 to \$100,000 per event.
- Planning and on site management of over fifteen different conferences and events every year, including faculty development institutes and planning meetings with advisory boards. Serve as an advisor and coordinator for more than thirty events every year.

*May 2007 to June 2008*

*Florida 4-H Foundation*

### Camp Director/Program Assistant

4-H Horsemanship School, Camp Welaka

- Management of riding instructors, recreation director, adult volunteers, kitchen staff, forestry staff, and 4-H employees
- Budgeting; using petty cash for weekly supplies.
- Worked closely with Equine State Specialists as well as other 4-H State employees.
- Program Assistant to Animal Science Youth Coordinator. Helped coordinate State Judging Contests and State Animal Science Contests.

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## Publications

NDVI imaging within space exploration plant growth modules—A case study from EDEN ISS Antarctica. R Tucker, JA Callaham, C Zeidler, AL Paul, RJ Ferl Life Sciences in Space Research 26, 1-9 (2020)

Modelling Leaf Temperatures during Parabolic Flights J Koptur-Palenchar, J Callaham, AL Paul, R Ferl, M Meisel APS March Meeting Abstracts 2019, F67. (2019)

Approaches for Surveying Cosmic Radiation Damage in Large Populations of Arabidopsis thaliana Seeds—an Antarctic Example BM Califar, R Tucker, J Cromie, N Sng, RA Schmitz, JA Callaham, et al. Gravitational and Space Research 6 (2) (2018)

Approaches for Surveying Cosmic Radiation Damage in Large Populations of Arabidopsis thaliana Seeds-Antarctic Balloons and Particle Beams. B Califar, R Tucker, J Cromie, N Sng, RA Schmitz, JA Callaham, et al. Gravitational & Space Biology 6 (2) (2018)

Utilization of single-image normalized difference vegetation index (SI-NDVI) for early plant stress detection. NS Beisel, JB Callaham, NJ Sng, DJ Taylor, AL Paul, RJ Ferl Applications in plant sciences 6 (10), e01186 (2018)

ARG1 functions in the physiological adaptation of undifferentiated plant cells to spaceflight. AK Zupanska, ER Schultz, JQ Yao, NJ Sng, M Zhou, JB Callaham, RJ Ferl, et al. Astrobiology 17 (11), 1077-1111 10 (2017)

Spectral Imaging within EDEN ISS for Plant Health and Productivity Assessment. R Ferl, AL Paul, J Callaham, N Beisel, D Taylor, M Bamsey, D Schubert, et al. (2017)

Patterns of Arabidopsis gene expression in the face of hypobaric stress. AL Paul, M Zhou, JB Callaham, M Reyes, M Stasiak, A Riva, AK Zupanska, et al. AoB Plants 9 (4)2 (2017)

Dissecting low atmospheric pressure stress: transcriptome responses to the components of hypobaric stress in Arabidopsis. M Zhou, JB Callaham, M Reyes, M Stasiak, A Riva, AK Zupanska, et al. Frontiers in plant science 8, 528 12 (2017)

Arabidopsis thaliana for spaceflight applications—preparing dormant biology for passive stowage and on orbit activation N Sng, J Callaham, RJ Ferl, AL Paul Gravitational and Space Research 2 (2)