Braulio Andres Macias-Rodriguez

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EDUCATION

Masters of Science in Food Science and Human Nutrition

May 2013

University of Florida, Gainesville, FL

Concentration: Food Safety, Engineering and Processing

GPA: 3.60/4.00

Thesis: "Pulsed Light as a Risk Mitigation Tool for Disinfecting Hard-Cooked Eggs and

Conveyor Surface"

Bachelor of Science in Food Processing Engineering

Feb 2010

Superior Polytechnic School of Litoral, Guayaquil, Ecuador

GPA: 3.26/4.00

RESEARCH EXPERIENCE

Graduate Research/Teaching Assistant

August 2011 to Present

University of Florida, Food Engineering and Processing Laboratory, Gainesville, FL

- Investigated the use of novel technologies such as pulsed light in food processing/engineering applications
- Prepared manuscripts for publication in peer-reviewed scientific journals
- Supervised 14 graduate students during Advanced Food Chemistry laboratory exercises
- Prepared chemicals for laboratory exercises and set up lab equipment

INDUSTRY EXPERIENCE

Research and Development Intern

May to August 2013

Florida Food Products Inc., Eustis, Florida, United States

- Designed, planned and executed experiments pertaining stability and sensory analysis on hydrocolloids.
- Ensured quality of hydrocolloids (e.g., strength, viscosity) according to final product specification
- Researched on methods to improve functionality of hydrocolloids
- Performed testing required for scale-up operations
- Compiled, summarized, interpreted and reported data obtained from bench testing

Quality Assurance Supervisor

February to July 2011

Topsy Ice-cream processing company, Guayaquil, Ecuador

- Audited daily inspection checklists
- Ensured quality and safety of raw materials, product in process and finished product according specifications
- Performed quality-control checks on daily production
- Supervised and standardized sanitation procedures of processing lines, product storage tanks and tanker trucks
- Collaborated with production and research and development teams regarding the implementation of Good Manufacturing Practices (GMPs)
- Collaborated with the project engineering team in the implementation of temperature controls to increase yield and minimize waste of chocolate coatings in covered ice-cream popsicles
- Trained plant personnel about in-line quality tests, sanitation procedures and GMPs

LEADERSHIP

Graduate Student Representative

August 2012 to August 2013

University of Florida, Food Science and Human Nutrition Department, Gainesville, FL

- Represented and served as a liaison between 100 graduate students, Graduate Student Council and departmental administration in the Food Science Department
- Presented the grievances and needs of the graduate students to the Graduate Student Council
- Attended monthly Graduate Student Council meetings to elicit and convey information pertaining to scholarships, travel grants and other issues of relevance

HONORS AND AWARDS

- Travel grant of \$250 to support funding to attend the Institute of Food Technologist (IFT) Annual Scientific Meeting and Food Expo, Las Vegas, NV, June 2012
- Outstanding International Student Academic award, University of Florida, College of Agriculture and Life Sciences, January 2012

PROFESSIONAL ORGANIZATION AND SERVICE

Professional Membership

- Toastmasters International, University of Florida, November 2012 to Present
- Food Science and Human Nutrition Club, January 2012 to Present
- Graduate Student Association (GSA), August 2011 to Present
- Florida Institute of Food Technologists Student Association, October 2011 to Present
- Institute of Food Technologist Student Association (IFTSA) college bowl team, **October 2011 to Present**
- Institute of Food Technologists (IFT), **December 2011 to Present**
- Institute of Food Technologist Student Association, December 2011 to Present

Volunteering

- Cooked meals, served dinner and interacted with residents at the American Cancer Society Winn-Dixie Lodge, Gainesville, FL, January 2013
- Cooked meals, served dinner and interacted with residents at the American Cancer Society Winn-Dixie Lodge, Gainesville, FL, October 2011
- Judged science projects (physics) and posters of Grades 6 to 8 students for Alachua County public schools, Gainesville, FL, **December 2011 and 2012**
- Participated in the Foreign Language Conversational Partner Program at the University of Florida to facilitate international students in enhancing their English speaking skills, Gainesville, FL, February 2012 to Present

CONFERENCE PRESENTATIONS AND PUBLISHED ABSTRACTS OF RESEARCH

- Improvement of Microbial Safety of Hard-cooked Eggs by Pulsed Light. Invited to
 present at the International Association for Food Protection Annual Meeting. Charlotte,
 NC, July 2013.
- Improvement of Microbial Safety of Hard-cooked Eggs by Pulsed Light Illumination. Invited to present at The Institute of Food Technologists and Food Expo Annual Meeting. Chicago, IL, July 2013.
- Improving the Microbial Safety of Hard-cooked Eggs by Pulsed Light. Presented at the Emory University STEM Research and Career Symposium. Atlanta, GA, April 2013.

SKILLS

Languages

• Fluent in Spanish

Computer

- Operating Systems: Microsoft and Apple Macintosh
- Statistical Analytical Software (SAS), Color Machine Vision Systems (CMVS)
- Microsoft Office Word, PowerPoint, Excel, Visio and Adobe Acrobat Reader

Technical

• Laboratory equipment: Pulsed Light System, Ultraviolet (UV) Spectrometer, Texture Analyzer, Color Machine Vision System