

# IAN HEWITT

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## EDUCATION

- **Master of Science in Astronomy**, Swinburne University, Hawthorn, Australia
  - Major Project: *Dynamical Stability of the TRAPPIST-1 Star System Using N-Body Simulations*
  - Major Project: *Spiral Galaxy Arm Pitch Angle Measurements using DSLR Images*
- **Master of Science in Electrical Engineering (Computer)**, University of South Carolina, Columbia, SC
  - Focus: Software Engineering and Computer Networking
  - Thesis: *Communications Queuing Theory Performance Analysis*
- **Bachelor of Science in Computer Engineering**, Tampa, FL
  - Senior Project – *Design of a Multi-bus to S-100 Bus Converter Board*

## PROFESSIONAL EXPERIENCE

- Teaching Associate**, Astronomy and Computing Sciences **2018 – Present**  
Coastal Carolina University Depts of Physics and Eng. Science and Comp Sciences, Conway, SC
- Research Adjunct**, Astronomy & Astrophysics Laboratory **2018 – Present**  
NC MUSEUM OF NATURAL SCIENCES, Raleigh, NC
- Volunteer Assistant Researcher**, Astronomy & Astrophysics Laboratory **2015 – 2018**  
NC MUSEUM OF NATURAL SCIENCES, Raleigh, NC
- Solar System Ambassador**, Volunteer Educator Program **2003 – Present**  
**JET PROPULSION LABORATORY**, Pasadena, CA
- Global Customer Technical Program Manager**, Strategic Accounts **2013 – 2016**  
Artesyn Embedded Computing, Raleigh, NC
- Technical Architect**, Global Accounts **2008 – 2013**  
Emerson Network Power and Embedded Computing, Raleigh, NC
- System Engineer**, Southern Region/Global Accounts **1988 – 2008**  
Motorola Computer Group, Raleigh, NC

## TEACHING EXPERIENCE

- Instructor**, Coastal Carolina University
- ASTR-101/ASTR-101L: Introduction to Astronomy and Laboratory
  - ASTR-111/ASTR-111L: Mysteries of the Sky and Laboratory (Created and Taught)
  - ASTR-112/ASTR-112L: Mysteries of the Universe and Laboratory (Created and Taught)
  - ASTR-217: Observational Astronomy (Created and Taught)
  - CSCI-135: Introduction to Programming (Course Coordinator and Taught)
  - CSCI-145: Intermediate Programming (Created and Taught)
- Instructor**, OSHER LIFELONG LEARNING INSTITUTE, North Carolina State University, Raleigh, NC
- Science of the NASA Solar System Missions (Created and Taught)

- Science of “The Martian” (Created and Taught)
- History of Human Spaceflight (Created and Taught)

**Instructor, Artesyn Embedded Technologies**

*Emerson Network Power, Embedded Computing (purchased by Private Equity).*

*Motorola, Inc, Embedded Communications Computing Group (Purchased by Emerson Electric).*

- Developed technical content for AIX Device Driver course to train field engineering staff
- Created and taught technical training on AdvancedTCA technology to field engineering teams
- Created and taught course on telecom technologies
- Created and taught course on High Availability Linux (Motorola product)
- Developed training material on Linux and networking technologies for use of the engineering team

**PUBLICATIONS**

- Treuthardt, P. & **Hewitt, I.B.** (2023) “Spiral Graph: Pitch Angle Measurements of Spiral Galaxies from Data Collected by Citizen Scientists, Poster at AAS #241 Meeting
- **Hewitt, I.B.** & Treuthardt, P. (2020) “Comparison of Galaxy Spiral Arm Pitch Angle Measurements Using Manual and Automated Techniques,” MNRAS 493:3854
- Treuthardt, P., **Hewitt, I.B.**, Scott, A. &, (2020) “**Spiral Graph** Citizen Science Data for Determining the Pitch Angles of Spiral Galaxies,” Poster at AAS #235 Meeting
- Treuthardt, P., Scott, A., & **Hewitt, I.B.** (2019) “Searching for Intermediate Mass Black Holes in Spiral Galaxies Using Pitch Angles Gathered by Citizen Scientists,” Poster at AAS #234 Meeting
- **Hewitt, I.B.** & Treuthardt, P. (2018), “A Comparison of Galaxy Spiral Arm Pitch Angle Measurements Using Manual and Automated Techniques,” Poster at IAU GA 2018 Meeting
- **Hewitt, I.B.** & Treuthardt, P. (2018), “A Comparison of Galaxy Spiral Arm Pitch Angle Measurements Using Manual and Automated Techniques,” Poster at AAS #231 Meeting
- Mutlu-Pakdil, B., Seigar, M.S., **Hewitt, I.B.**, Treuthardt, P., Berrier, J.B., & Koval, L.E. (2018) “The Illustris simulation: supermassive black hole-galaxy connection beyond the bulge,” MNRAS, 474:2594
- **Hewitt, I.** & Takefuji, Y. (1986) “General Purpose Cross Assembly System using a Rule-Based Architecture,” SIAM 1986 National Meeting
- Takefuji, Y. & **Hewitt, I.** (1986) “VLSI Eulerian Circuit Generators,” Proc. Of the 18<sup>th</sup> Southeastern Symposium on System Theory

– **PROFESSIONAL DEVELOPMENT**

- **OER Part II:** Implementing and Promoting Your Open Educational Resource Course to Students, CCU **Fall 2020**
- **Core Moodle Tools for Faculty,** CCU **Summer 2020**
- **OER Part I:** Integration of Open Educational Resources (OERs) into your Online, Hybrid, and Traditional Courses, CCU **Summer 2020**
- **Best Practices for Digital Learning,** CCU **Summer 2020**

- **Best Practices for Developing Online Course Multimedia**, CCU **Spring 2020**
- **Communication Musts in an Online Classroom**, CCU **Spring 2020**
- **Essentials for Remote Teaching and Learning**, CCU **Spring 2020**
- **COOL Course Enhancement Grant**, Intermediate Programming (DL) **Summer 2019**
- Evaluation was Exemplary
- **Using Best Practices to Update Your Online Learning Course**, CCU **Summer 2019**
- **10 Principles of Effective Online Teaching**, CCU **Summer 2019**
- **QAI Online**, CCU **Summer 2019**
- **Integration of Accessible Assignments and Activities into your Online, Hybrid, and Flex Classes**, CCU **Summer 2019**
- **Academic Integrity and Best Practices in Digital Learning**, CCU **Summer 2019**

– **PROFESSIONAL MEMBERSHIPS**

- **Fellow**, Royal Astronomical Society (UK) **2017 – Present**
- **Educational Member**, American Astronomical Society **2016 – Present**