

FRED BUHL, M.S.

University of Florida

Department of Computer and Information Science and Engineering

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EDUCATION AND RESEARCH

University of Florida, Gainesville FL

- Graduate Research with Anand Rangarajan & Ph.D. coursework, May 2017-present

Online

- Machine Learning by Stanford University on Coursera. Certificate earned on June 11, 2017
- Computational Neuroscience by University of Washington on Coursera. Certificate earned on March 12, 2017

University of Florida, Gainesville FL

- Graduate Research with Paul Fishwick, August 1989-April 1994
- M.S., Computer Science, April 1994

Thesis: A Simulation of Insect Intelligence: Animats with Empirically Based Learning and Behavior.

University of Florida, Gainesville FL

- Undergraduate Study, August 1981-April 1986.
- B.S., Computer Science, April 1986

EMPLOYMENT

Court Technology Officer, Florida State Courts System, Eighth Judicial Circuit of Florida, November 1998-2019.

- Developed **OpenCourt**, Digital Court Reporting software used in 43 counties and 500 courtrooms in the State of Florida. 2009-2019.
- Developed **ICMS**, the Integrated Case Management System; software used in 23 counties in the State of Florida. 1999-2019.
- **Responsibilities:** All Court IT responsibilities for the six counties comprising the Eighth Judicial Circuit; managing department and staff, network and system administration, software development.
- Authored sections of an amendment on a Florida Senate bill regarding access to data for the state courts system.

Software Development/Support, Florida Survey Research Center, University of Florida; May 2001-2021.

- Developed software & provided support for computer-aided telephone interviewing and web surveys.

Operations Manager, CLASnet, University of Florida, November 1995-November 1998

- Managed CLASnet the College of Liberal Arts and Sciences network, comprising 35 buildings on campus.

Senior Computer Programmer/Analyst, Animal Science Department, University of Florida, May 1987-November 1995.

- Developed **CowBase**, a system to manage beef cattle herds; program was distributed via the UF/IFAS cooperative extension service throughout Florida. Modified the program for Spanish support; program used throughout Latin America.

PROJECTS

- OpenCourt - 2009-2019
- ICMS (Integrated Case Management System) 1999-2019.
- SowBase (1987-1995)
- CowBase (1987-1995)
- 4H/FFA Judging Contest programs (1987-1995)

PUBLICATIONS

1. Buhl, Fred: "Emotions without Words: An Exploration of Machine Learning Approaches to Classify Emotions from Vocal Bursts", 2021 [submitted]
2. Buhl, Fred; **ICMS User's Manual**, 2014.
3. Buhl, Fred; **OpenCourt DCR Manual**, 2012.
4. Buhl, Fred; **OpenCourt Administrator Manual**, 2012.
5. Buhl, Fred; **OpenCourt User's Manual**, 2012.
6. Buhl, Fred; Sand, Robert S., Kunkle, William; **CowBase User's Manual**, Florida Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida, Computer Series, Circular 842.

CONFERENCES

- **NeurIPS 2020** (attended virtually)
- **GTC 2020** (attended virtually)
- **ACL 2020** (attended virtually)
- **AKBC 2020** (attended virtually)
- **NeurIPS 2019**, Vancouver, Canada (attended)
- **E-Courts 2018**, Las Vegas, Nevada
 - Presented talk (with Roosevelt Sawyer): *Rolling your own: Adventures and Lessons Learned Developing Court Software In-House*
- **NeurIPS 2018**, Montreal, Canada (attended)
- **NIPS 2017**, Long Beach, California (attended)
- **Commonsense 2017**, London, UK (attended)
- **Neuroscience 2016**, San Diego, California (attended)

HONORS

- **AI Research Catalyst Fund Award** from UF Research, providing access to HiPerGator high-performance computing resources, December 2020
- **Fred Buhl Court Technology Suite** named in the Alachua Family/Civil Justice Center, Gainesville, Florida, June 2019
- **Agency IT Professional of the Year - State Court System** / Florida Agency for State Technology, May 2017
- **Florida TaxWatch Prudential Productivity Award**, June 2017
- **Florida TaxWatch Prudential Davis Productivity Award**, for **OpenCourt**, an open source Digital Court Reporting system, April 2014
- **Superior Accomplishment Award**, University of Florida, 1994, for **CowBase**, a beef cattle management system.