Fernando Gama | Resume

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Age: 24 (11/21/1988)

Education

University of Buenos Aires — **Buenos Aires, Argentina**
Electronic Engineer, GPA – 8.64 — *2007 – 2013*

Thesis

Title: *Biased Estimation: Theory and Applications*

Supervisor: Dr. Ing. Bruno Cernuschi-Frías

Description: The thesis was focused on biased estimation, developing a general characterization of affine estimators with application to single tone parameter estimation.

Research Experience

School of Engineering, Department of Electronics — **University of Buenos Aires**
Research Assistant — *August 2011 – Present*
Laboratory for Research in Signal and Image Processing and Neural Networks (LIPSIRN).

Publications

F. Gama, D. Casaglia, and B. Cernuschi-Frías, "Alternative admissible biased estimators," *IEEE Latin America Transactions*, vol. 11, no. 1, pp. 40–47, February 2013.

Presentations

F. Gama, D. Casaglia, and B. Cernuschi-Frías, "Characterization of estimators with affine bias," in *XXIII Congreso Argentino de Control Automático AADECA '12*. Asociación Argentina de Control Automático (AADECA), October 2012, pp. 20 (1–7).

F. Gama, D. Casaglia, and B. Cernuschi-Frías, "Application of affine estimators to single tone frequency estimation," in *Anales 41 JAIIO, Simposio Argentino de Tecnología (AST 2012)*. Sociedad Argentina de Informática (SADIO), August 2012, pp. 121–131, ISSN:1850-2806.

F. Gama, D. Casaglia, and B. Cernuschi-Frías, "Alternative admissible biased estimators," in *ArgenCon 2012, Conference Proceedings*, vol. 1, IEEE Sección Argentina, FCEFyN - Universidad Nacional de Córdoba. Editorial Científica Universitaria, Universitas, June 2012, pp. 105 (1–6), ISBN: 987572076-3.

Teaching Experience

School of Engineering, Department of Physics — **University of Buenos Aires**
Teaching Assistant — *Sept. 2009 – Sept. 2012*
Course: **Physics II**. Introduction to Electromagnetism: From Coulomb's Law to the four complete Maxwell equations. Dielectric and ferromagnetic materials. Heat transmission and Thermodynamics.

School of Engineering, Department of Mathematics — **University of Buenos Aires**
Teaching Assistant — *March 2010 – Present*

Course: **Probability and Statistics**. Probability and probability Spaces. Random variables. Moments. Transformations. Conditional expectation and prediction. Bernoulli trials. Poisson Processes. Central Limit Theorem. Statistics. Parameter estimation. Interval estimation. Hypothesis testing.

School of Engineering, Department of Electronics **University of Buenos Aires**
Teaching Assistant *March 2012 – Present*
Course: **Stochastic Processes** *(March 2012–March 2013)*. Random vectors. Wide sense stationary processes. Random processes and linear systems. White noise. AR, MA, ARMA. Matched filter. Bayes decision theory. Linear estimation. Markov processes. Queue theory.
Course: **Signal Processing I and II:** *(March 2013–Present)*. Digital filter design. Filter banks. Wiener filtering. Linear prediction. LS estimation. Kalman filtering. LMS filtering. Adaptive filtering.

Duties

- Teaching practices (problem-solving).
- Moderating and administrating virtual platforms for class discussion (Google group, Moodle).
- Answering students' questions by email, at review sessions and by other means.
- Setting up Lab practices and handling instrument.
- Preparing lecture notes.

Awards

2012: Scholarship awarded by the National Agency for Promotion of Science and Technology (Becas TICs, ANPCyT).

Other activities

Member of the Permanent Curricular Committee of the Electronic Engineering Career (CC).

Member of the Advisory Board of the Electronics Department (CA).

Active participant of the Electronics Students Commission (ComElec).

Official tutor for new students pursuing the Electronic Engineering degree.

Languages

Spanish: Mothertongue

English: Advanced *CAE (Cambridge), 2007. Grade: B*

French: Basic *Basic understanding of written texts*

Skills

- LaTeX
- `C` Language
- LibreOffice
- Matlab
- Octave
- Microsoft Office