JIN A SONG

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EDUCATION

2007- Present North Carolina State University (NC, U.S.A)

Ph.D. course in Electrical and Computer Engineering

- Independent study (2008 Fall)
  Analytical approaches for biochemical pathways
- Qualifying test (2009 Spring)
  Dynamic models of biochemical pathways through information integration

2001- 2003 Ewha women University (Seoul, Korea)

Master of Science in Electronics Engineering, 2003

- Thesis: Sampling Offset Estimation in OFDM System in the Case of IF Sub-sampling of Software-Defined Radio

1997- 2001 Ewha women University (Seoul, Korea)

Bachelor of Science in Electronics Engineering, 2001

- Thesis: *CDMA/TDMA receiver implementation for Software Defined Radio*

PROFESSIONAL EXPERIENCE

2009- Present North Carolina State University (NC, U.S.A)
(Under the supervision of Dr. Cranos M. Williams)

Research Assistant (2009 -)

- Research for dynamic models of biochemical pathways through information integration (2009 Spring)
- Research for parameter and state estimation for biochemical pathways dynamic modeling (2009 Fall)

2008 Samsung Electronics co. Ltd. (Giheung, Korea)
(System LSI Division)

Intern Engineer (2008 summer)

- Defined and designed algorithm of transceiver of RFID (receiver part)

2003- 2006 Magnachip Semiconductor Ltd. (Seoul, Korea)
(Formerly SystemIC Division, Hynix Semiconductor, Inc.)

Senior Engineer (2005-2006)

- Designed and developed an 8-bit LCD TV driver IC with 0.3/0.35 um processor
- Mentored new engineers in their designs for the Control Signal of an LCD driver IC.

Engineer (2003-2004)

- Designed and developed an 6, 8-bit LCD monitor driver IC with 0.3/0.35um processor

PROFESSIONAL EXPERIENCE

2001- 2003 Ewha wemen university (Seoul, Korea)
(Mobile Communication Laboratory and Hynix-Ewha Microelectronics Center)

Research Assistant (2001-2003)

- Defined the mobile station modem algorithms for 4G wireless systems which facilitate multimode, multi-band cellular phones.
- Researched sampling offset estimations on OFDM systems for Software-Defined Radio.
- Implemented modem algorithms for OFDM transceivers

Teaching Assistant (2001-2003)

- Graded experiments and reports.
- Assisted in the lab work for the undergraduate course in the Electronic Circuit Lab.
- Assisted the Instructor of Microprocessor Architecture & Application in both research and teaching.

SKILLS

- ***Biology Modeling:*** Vcell, Copasi
- ***Algorithm Simulation:*** Matlab / Visual C, C++
- ***Hardware Design:*** DSP, FPGA

PUBLICATIONS

- **Jin A. Song** and Nak Myung, Kim**,** Sampling Offset Estimation in OFDM System in the Case of IF Subsampling of Software-Defined Radio, *The 13th Joint Conference on Communications and Information,* April 2003

PRESENTATIONS

- Parameter and state estimation containing uncertainty for biochemical pathways, *Joint ECE-CSC Fall Seminar*, Raleigh, NC, October 24, 2009,