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| ***Jing Lin*** |
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| **Education** | | **Doctor of Philosophy, Electrical and Computer Engineering, May 2013 (expected)**  The University of Texas at Austin  Advisor: Prof. Brian L. Evans  GPA: 3.91/4.00  **Masters of Science, Electrical and Computer Engineering, May 2010**  The University of Texas at Austin  Advisor: Prof. Brian L. Evans  GPA: 3.91/4.00 |
|  | | **Bachelors of Science, Electrical Engineering, July 2008**  Tsinghua University, China  GPA: 89.4/100 |
| **Related Courses**  **(Graduate Level)** | | **- Communication and signal processing theory:**  Digital Signal Processing, Digital Communications, Modulation and Multiple Access, Estimation theory, Analysis and Design of Communication Networks, Multi-scale and Multi-rate Signal Processing  **- Mathematics:**  Probabilities and Stochastic Processes, Linear Programming, Stochastic Optimization, Mathematical Statistics, Numerical Analysis  **- Embedded System Design and Prototyping:**  Embedded System Design and Modeling, VLSI Communication Systems, Wireless Communications Lab |
| **Academic Experience** | | 2010 Fall - Now, **Research Assistant**  **Powerline Communications for Enabling Smart Grid Applications**   * Medium-voltage/low-voltage powerline channel and noise modeling; * Impulsive noise mitigation in multicarrier communication systems; * Powerline communications testbed implementation.   More Details: <http://users.ece.utexas.edu/~bevans/projects/plc/index.html>  2009 Spring, 2009 Summer and 2010 Spring, **Research Assistant**  **MIMO Discrete Multi-tone (DMT) Testbed**   * Per-tone channel shortening equalizer implementation; * Performance and computational complexity tradeoffs in PAPR (peak-to-average power ratio) reduction methods.   More Details: <http://users.ece.utexas.edu/~bevans/projects/adsl/index.html> |
|  | | 2009 Fall, **Teaching Assistant for Real-time Digital Signal Processing Lab**  Conducted laboratory sessions to guide students in designing and implementing a voiceband transceiver in C on a Texas Instruments TMS320C6713 floating-point programmable digital signal processor. Emphasized design tradeoffs in signal quality vs. implementation complexity. |
|  | | 2008 Fall, **Teaching Assistant for Linear Systems and Signals** |
|  | | **Reviewer for major IEEE conferences:**  Global Communications Conference; International Conference on Communications; International Conference on Acoustics, Speech, and Signal Processing; International Conference on Image Processing |
| **Work Experience** | 05/2011 - 08/2011, **Intern**  **Huawei**, Wireless Research and Development Center of North America  Developed a mathematical optimization framework (patent pending) for partitioning and scheduling a multi-user UMTS receiver onto multiprocessors.  06/2010 - 08/2010, **Software Engineer Intern**  **National Instruments**,high-level synthesis team of LabVIEW FPGA;  Developed a C++ API to generate reliable and efficient circuit implementation in VHDL from LabVIEW FPGA programs.  06/2007 - 08/2007, **Software Engineer Intern**  **Institution of Automation, Chinese Academy of Sciences**  Developed Medical Imaging Toolkit (MITK) LINUX version in C++. | |
| **Skills** | | Hardware description languages: VHDL, Verilog HDL  High-level software programming languages: C, C++, Java, Visual Basic  Embedded system design language: SpecC  Assembly languages: TI TMS320C6000 VLIW DSP  Test and measurement: Signal generators, oscilloscopes, spectrum analyzers  Software development environments: Quartus II, Xilinx ISE Foundation, TI Code Composer Studio, Microsoft Visual Studio, Anjuta  Algorithm development environments: Matlab, Simulink, LabVIEW  Subversion control: Perforce, TortoiseSVN  Strong communication skills: oral, written, and presentation |
| **Publications** | | J. Lin, A. Srivatsa, A. Gerstlauer and B. L. Evans, “**Heterogeneous Multiprocessor Mapping for Real-time Streaming Systems**”, *IEEE Int. Conf. on Acoustics, Speech, and Signal Proc.*, May 22-27, 2011, Prague, Czech Republic. [J. Lin](http://signal.ece.utexas.edu/%7Ejlin), [M. Nassar](http://signal.ece.utexas.edu/%7Enassar/) and [B. L. Evans](http://users.ece.utexas.edu/%7Ebevans), [“](http://www.ece.utexas.edu/%7Ebevans/papers/2011/nonparametric/index.html)**[Non-Parametric Impulsive Noise Mitigation in OFDM Systems Using Sparse Bayesian Learning](http://www.ece.utexas.edu/%7Ebevans/papers/2011/nonparametric/index.html)**”, *IEEE Int. Global Communications Conf.*, Dec. 5-9, 2011, Houston, TX USA. [M. Nassar](http://signal.ece.utexas.edu/%7Enassar/), [J. Lin](http://signal.ece.utexas.edu/%7Ejlin), [Y. Mortazavi](http://signal.ece.utexas.edu/%7Emortazav/), A. Dabak and [B. L. Evans](http://users.ece.utexas.edu/%7Ebevans), **[“Channel Impairments and Impulsive Noise in Local Utility Powerline Communications](http://www.ece.utexas.edu/%7Ebevans/papers/2012/powerline/index.html)**[''](http://www.ece.utexas.edu/%7Ebevans/papers/2012/powerline/index.html), *IEEE Signal Processing Magazine*, submitted Sep. 6, 2011. |
| **Technical Reports** | | J. Lin, A. Chopra, Y. Mortazavi and B. L. Evans, “**Real-time MIMO-DMT Testbed User Manuals**”, Dept. of Electrical and Computer Engineering, The University of Texas at Austin, July 2009 |
| **Accomplishments** | | Second Prize Excellent Academic Performance Scholarship, Tsinghua University |
| **Visa Status** | | **F-1 Student Visa with work permission in the US** |