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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 AustinAdvisor: Prof. Brian L. EvansGPA: 3.91/4.00**Masters of Science, Electrical and Computer Engineering, May 2010**The University of Texas at AustinAdvisor: Prof. Brian L. EvansGPA: 3.91/4.00 |
|  | **Bachelors of Science, Electrical Engineering, July 2008**Tsinghua University, ChinaGPA: 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 AmericaDeveloped 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 HDLHigh-level software programming languages: C, C++, Java, Visual BasicEmbedded system design language: SpecCAssembly languages: TI TMS320C6000 VLIW DSPTest and measurement: Signal generators, oscilloscopes, spectrum analyzersSoftware development environments: Quartus II, Xilinx ISE Foundation, TI Code Composer Studio, Microsoft Visual Studio, AnjutaAlgorithm development environments: Matlab, Simulink, LabVIEWSubversion control: Perforce, TortoiseSVNStrong 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/~jlin), [M. Nassar](http://signal.ece.utexas.edu/~nassar/) and [B. L. Evans](http://users.ece.utexas.edu/~bevans), [“](http://www.ece.utexas.edu/~bevans/papers/2011/nonparametric/index.html)**[Non-Parametric Impulsive Noise Mitigation in OFDM Systems Using Sparse Bayesian Learning](http://www.ece.utexas.edu/~bevans/papers/2011/nonparametric/index.html)**”, *IEEE Int. Global Communications Conf.*, Dec. 5-9, 2011, Houston, TX USA.[M. Nassar](http://signal.ece.utexas.edu/~nassar/), [J. Lin](http://signal.ece.utexas.edu/~jlin), [Y. Mortazavi](http://signal.ece.utexas.edu/~mortazav/), A. Dabak and [B. L. Evans](http://users.ece.utexas.edu/~bevans), **[“Channel Impairments and Impulsive Noise in Local Utility Powerline Communications](http://www.ece.utexas.edu/~bevans/papers/2012/powerline/index.html)**[''](http://www.ece.utexas.edu/~bevans/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** |