

## Chuen-Song Chen

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Chuen-Song Chen is a Ph.D. student in Electrical Engineering at University of Rhode Island. He has worked with his research advisor, Prof. Miller, on the ONR-sponsored Asian Seas Acoustic Experiment (ASIAEX) on time-frequency analysis of explosive signals in the East China Sea. His research interests include acoustic signal processing, high resolution sonar receiver, and integrated circuit design.

### *Education*

2002 - Present: Ph.D. Program in Department of Electrical & Computer Engineering, University of Rhode Island.

2000 - 2002: M.S., Department of Electrical & Computer Engineering, University of Rhode Island, Research Advisor: Dr. James H. Miller, GPA: 3.8  
Master Thesis: Time-Frequency Analysis of Underwater Acoustic Signals in the 2001 ASIAEX- East China Sea Experiment

1994 - 1996: M.S., Department of Marine Environment and Engineering, National Sun Yat-sen University, Taiwan, Research advisor: Dr. Jin-Yuan Liu, GPA: 3.98  
Thesis: Effects of Elastic Seabed and Waveguide Environment on the Ambient Noise Generated by Surface Random Processes

1990 - 1994: B.S., Department of Marine Environment and Engineering, National Sun Yat-sen University, Taiwan, GPA: 3.53, Rank: 2/38.

### *Publications*

1. Chen, C.S., Miller, J.H., Boudreaux-Bartels, G.F., Potty, G.R., and Lazauski, C.J., "Application of Matching Pursuit Algorithm for Dispersive Acoustic Signals," *Journal of the Acoustical Society of America*, vol. 112, p. 2421, Nov. 2002.
2. Lazauski, C.J., Miller, J.H., Potty, G.R., Chen, C.S., and Dahl, P., "Sediment Tomography in the East China Sea: Compressional Wave Speed and Attenuation Inversions from Airy Phase Dispersion Measurements and Time Series Correlation," *Journal of the Acoustical Society of America*, vol. 112, p. 2309, Nov. 2002.
3. Lazauski, C.J., Potty, G.R., Miller, J., Chen, C.S., and Dahl, P., "Sediment Tomography in the East China Sea: Compressional Wave Speed and Attenuation

Inversions from Mode Travel Time Dispersion and Airy Phase Measurements,” *Journal of the Acoustical Society of America*, vol. 111, p. 2388, May 2002.

4. Potty, G.R., Miller, J., Chen, C.S., and Dahl, P., “Sediment Tomography in the East China Sea: Preliminary Results,” *Journal of the Acoustical Society of America*, vol. 110, p. 2724, Nov. 2001.
5. Liu, J.Y. and Chen, C.S., “ Effects of Elastic Seabed on the Ambient Noise Generated by Surface Random Processes,” Proceedings of 18<sup>th</sup> Conference on Ocean Engineering in Republic of China, pp. 907-917, Nov. 1996.
6. Liu, J.Y. and Chen, C.S., “Ambient Noise Generated by Surface Wind Waves – Numerical and Experimental Results,” *Journal of the Acoustical Society of America*, vol. 99, pp. 2454-2457, April 1996.

### *Professional Memberships*

- Student member of IEEE
- Student member of Acoustical Society of America

### *Research & Work Experiences*

09/2000 – Present: Teaching Assistant in Department of Ocean Engineering, University of Rhode Island.

05/2001 – Present: Research on Time-frequency analysis of underwater acoustic signals in the 2001 ASIAEX – East China Sea Experiment, Department of Ocean Engineering, University of Rhode Island.

01/2000 – 07/2000: Network System Engineer, Comax Information Inc, Taipei, Taiwan.

08/1998 – 10/1999: Assistant, Office of Academic Affairs, National Sun Yat-sen University, Taiwan.

09/1996 – 08/1998: Mandatory Military Service in Taiwan Navy.

### *Computer Skills*

Operating Systems: MS Windows/NT, Linux, Solaris, MS-DOS

Programming Languages: C++, Matlab, Fortran, HTML.

Tools: HSPICE, Magic, VHDL, MS Office, Visio, Latex, et al.