

CONTACT INFORMATION	Department of Electrical Engineering University of Texas at Dallas Richardson, TX 75080, United States	mobile: +1 972 591 8880 e-mail: kamil.wojcicki@ieee.org
RESEARCH INTERESTS	Speech processing, speech enhancement, speech perception, cochlear implants, speech and speaker recognition, machine learning and pattern recognition.	
EDUCATION	<b>Griffith University</b> , Nathan, Queensland, Australia <i>Doctor of Philosophy in Electrical Engineering</i> • Topic: Role of the short-time phase spectrum in speech processing • Advisors: Prof Kuldip Paliwal and Dr Stephen So <b>February 2005 – April 2011</b> <i>Bachelor of Information Technology</i> , <i>Bachelor of Engineering in Microelectronic Engineering (Hons)</i> • Majors: Computing Science, Computer Systems <b>February 2000 – April 2005</b>	
HONORS AND AWARDS	Best Paper Award, Griffith School of Engineering Research Conference, Nathan, 2007 Australian Research Council (ARC) Postgraduate Research Scholarship, Nathan, 2005–2010 Scholarship for Outstanding Academic Achievement, Griffith University, Nathan, 2000 National Mathematics Summer School, The Australian National University, Canberra, 1999, 2000 Certificate of Excellence for Outstanding Academic Achievement, University of Tasmania, 1999 Award for Best Design, Electronics Competition, The Electronics Educators Association, 1998	
SELECTED PUBLICATIONS	Paliwal, K.K., Schwerin, B. and K.K. Wójcicki, “Speech enhancement using a minimum mean-square error short-time spectral modulation magnitude estimator”, <i>Speech Communication</i> , Sep 2011. Paliwal, K.K., Schwerin, B. and K.K. Wójcicki, “Single channel speech enhancement using MMSE estimation of short-time modulation magnitude spectrum”, In <i>Proc. INTERSPEECH</i> , Florence, Italy, Aug 2011. Paliwal, K.K., Wójcicki, K.K. and B.J. Shannon, “The importance of phase in speech enhancement”, <i>Speech Communication</i> , Vol. 53(4), pp. 465–494, Apr 2011. Paliwal, K.K., Schwerin, B. and K.K. Wójcicki, “Role of modulation magnitude and phase spectrum towards speech intelligibility”, <i>Speech Communication</i> , Vol. 53(3), pp. 327–339, Mar 2011. So, S., Wójcicki, K.K. and K. Paliwal, “Single-channel speech enhancement using Kalman filter in the modulation domain”, In <i>Proc. INTERSPEECH</i> , Makuhari, Japan, pp. 993–996, Sep 2010. Paliwal, K.K., Wójcicki, K.K. and B. Schwerin, “Single-channel speech enhancement using spectral subtraction in the short-time modulation domain”, <i>Speech Communication</i> , Vol. 52(5), pp. 450–475, May 2010. So, S., Wójcicki, K.K., Lyons, J.G., Stark, A.P. and K.K. Paliwal, “Kalman filter with phase spectrum compensation algorithm for speech enhancement”. In <i>Proc. ICASSP</i> , Taipei, Taiwan, pp. 4405–4408, Apr 2009. Paliwal, K.K., Shannon, B.J., Lyons, J.G. and K.K. Wójcicki, “Speech-signal-based frequency warping”, <i>IEEE Signal Process. Lett.</i> , Vol. 16, No. 4, pp. 319–322, Apr 2009. Paliwal, K.K. and K.K. Wójcicki, “Effect of analysis window duration on speech intelligibility”, <i>IEEE Signal Process. Lett.</i> , Vol. 15, pp. 785–788, 2008. Stark, A.P., Wójcicki, K.K., Lyons, J.G. and K.K. Paliwal, “Noise driven short time phase spectrum compensation procedure for speech enhancement”, In <i>Proc. INTERSPEECH</i> , Brisbane, Australia, pp. 549–552, Sep 2008. Wójcicki, K.K., Milacic, M., Stark, A.P., Lyons, J.G. and K.K. Paliwal, “Exploiting conjugate symmetry of the short-time Fourier spectrum for speech enhancement”, <i>IEEE Signal Process. Lett.</i> , Vol. 15, pp. 461–464, 2008.	

PROFESSIONAL  
EXPERIENCE

**University of Texas at Dallas**, Richardson, Texas, United States

*Research Associate*

**February 2011 – present**

Research associate working on speech enhancement, speech intelligibility and cochlear implants.

**Qibt Navitas**, Mount Gravatt, Queensland, Australia

*Lecturer and Tutor*

**June 2009 – June 2010**

Lecturer and tutor for undergraduate courses in mathematics and computer science.

**Griffith University**, Nathan, Queensland, Australia

*Teaching Assistant*

**February 2005 – December 2009**

Teaching assistant for undergraduate courses in electrical engineering, including:

- Signals and Systems
- Digital Signal Processing
- Statistical Signal Processing
- Unix Systems
- Introduction to Programming with Matlab

*Chief Invigilator*

**June 2010 – November 2010**

Chief invigilator for Griffith University examinations.

*Assistant Invigilator*

**February 2005 – November 2010**

Assistant invigilator for undergraduate and graduate examinations.

**Hewlett Packard**, Milton, Queensland, Australia

*Server Specialist*

**March 2008 – February 2011**

Enterprise data center deployments, relocation and servicing for clients such as V Australia, Cement Australia, Gold Coast City Council, Optus, Queensland Health, Queensland Investment Corporation (QIC), Queensland Ombudsman's Office and Bain Gasteen Lawyers.

*Field Services Engineer*

**June 2004 – February 2011**

Workstation deployments for clients such as AMCOR, Blake Dawson Waldron, Commonwealth Bank, Bank of Queensland, Pindara Private Hospital and others.

**Fujitsu Australia**, Newstead, Queensland, Australia

*Field Services Engineer*

**April 2002 – December 2003**

Point-of-sale deployments for various clients, including Queensland Transport, Coles, Woolworths and Commonwealth Bank business centres.

PROFESSIONAL  
MEMBERSHIPS

Member of Institute of Electrical and Electronics Engineers (IEEE)

**2009 – present**

Member of International Speech Communication Association (ISCA)

**2007 – present**

PROGRAMMING

Matlab, C, C++, Linux shell scripting, L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>, Perl, Java, .NET, SQL, PHP

LANGUAGES

English, Polish

HOBBIES

Travel, photography, skiing, fitness

REFEREES

**Prof Kuldip Paliwal**

Professor

Griffith University

Nathan, Queensland, Australia

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**Dr Stephen So**

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**Dr Alok Sharma**  
Senior Lecturer  
University of the South Pacific  
Suva, Fiji Islands  
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**Mr Sean Loye**  
Systems Engineer  
Hewlett Packard  
Milton, Queensland, Australia  
phone: *available on request*  
e-mail: *available on request*