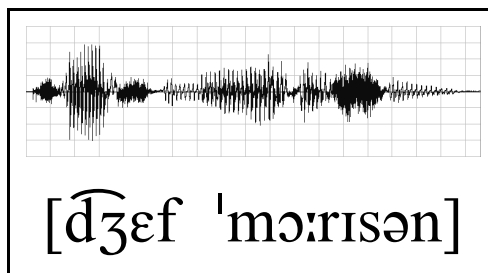


# Geoffrey Stewart Morrison

BSc MTS MA PhD

Independent Forensic Consultant



Abridged Curriculum Vitae

updated 12 December 2016

## Contact Information

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<http://forensic-evaluation.net/>

<http://forensic-voice-comparison.net/>

skype: geoff.morrison

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mailing address: [REDACTED]

Vancouver BC,  
CANADA

currently at:

Isaac Newton Institute for Mathematical Science  
20 Clarkson Road, Cambridge, CB3 0EH  
UNITED KINGDOM

telephone: [REDACTED]

## Highlights

- **Simons Foundation Visiting Fellow**, Probability and Statistics in Forensic Science Programme, Isaac Newton Institute for Mathematical Sciences, University of Cambridge, 2016.
- **Scientific Counsel**, Office of Legal Affairs, INTERPOL, 2015.
- **Adjunct Professor**, Department of Linguistics, University of Alberta, 2015–present.
- **Adjunct Associate Professor**, Department of Linguistics, University of Alberta, 2010–2015.
- **Director**, Forensic Voice Comparison Laboratory, School of Electrical Engineering & Telecommunications, University of New South Wales. 2010–2013.
- **Guest Editor**, *Speech Communication*, 2016–2018 “Multi-laboratory evaluation of forensic voice comparison systems under conditions reflecting those of a real forensic case (*forensic\_eval\_01*)”.
- **Guest Editor**, *Science & Justice*, 2016–2017 “Special issue on measuring and reporting the precision of forensic likelihood ratios”
- **Subject Editor**, *Speech Communication*, 2012–2014.
- **Chair**, Forensic Acoustics Subcommittee, Acoustical Society of America. 2010–2013.
- Most cited paper published in *Science & Justice* within previous 5 years, 2015–2016: Morrison (2011) “Measuring the validity and reliability of forensic likelihood-ratio systems”
- Total research funding brought in, 2010–2013: over \$900k
- Total number of publications:\* 58
- Total number of publications in forensic science:\* 38
- Total number of forensic cases worked on: 23

## Education

- |       |  |             |
|-------|--|-------------|
| • PhD | Department of Linguistics, University of Alberta       | 2003 – 2006 |
| • MA  | Department of Linguistics, Simon Fraser University     | 2000 – 2002 |
| • MTS | Vancouver School of Theology                           | 1992 – 1995 |
| • BSc | Faculty of Science & Engineering, University of Dundee | 1987 – 1990 |

\* includes journal articles, book chapters, invited and peer-reviewed conference proceedings

## Research & Teaching Appointments

- Adjunct Professor 2015 – present
- Adjunct Associate Professor 2010 – 2015  
Department of Linguistics, University of Alberta, Edmonton, Alberta, Canada
- Simons Foundation Visiting Fellow 2016  
Probability and Statistics in Forensic Science Programme, Isaac Newton Institute for Mathematical Sciences, University of Cambridge, Cambridge, England, UK
- Scientific Counsel 2015  
Office of Legal Affairs, International Criminal Police Organisation (INTERPOL) General Secretariat, Lyon, France
- Visiting Fellow 2013 – 2015
- Senior Research Fellow & Director of Forensic Voice Comparison Laboratory 2010 – 2013
- Visiting Fellow 2009 – 2010  
School of Electrical Engineering & Telecommunications, University of New South Wales, Sydney, New South Wales, Australia
- Invited Lecturer 2010 – 2015  
Consejo Superior de Investigaciones Científicas (CSIC) [Spanish National Research Council], / Universidad Internacional Menéndez Pelayo (UIMP)  
Judicial Phonetics Specialisation, Masters of Phonetics and Phonology Programme, Madrid, Spain
- Research Associate 2007 – 2010  
School of Language Studies, Australian National University, Canberra, ACT, Australia
- Research Fellow 2006 – 2007  
Speech Lab, Department of Cognitive & Neural Systems, Boston University, Boston, Massachusetts, USA

## Competitive Research Funding

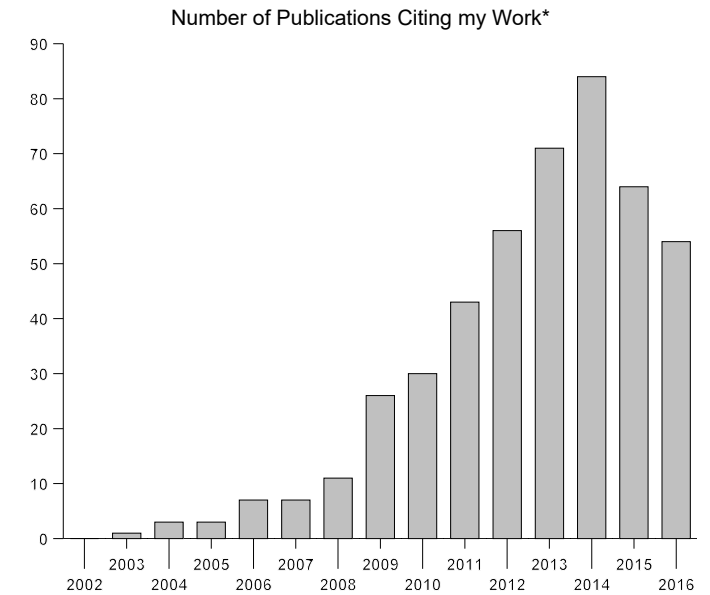
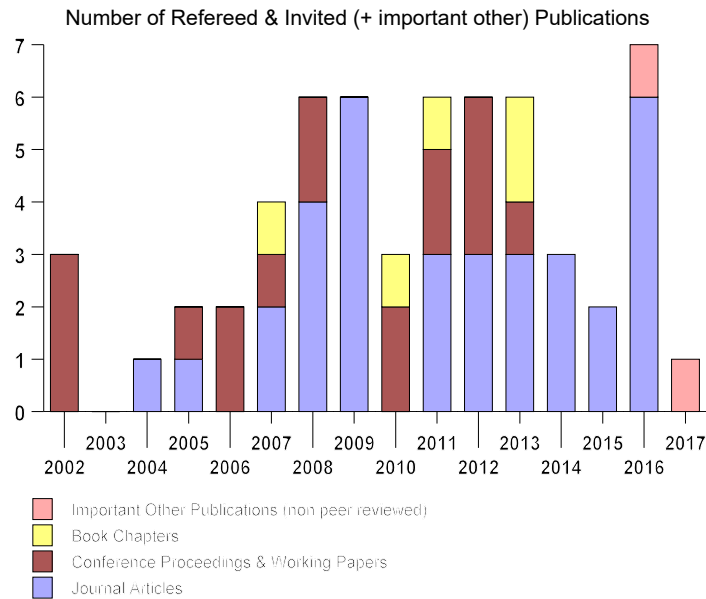
### Grants

- Australian Research Council Linkage Project AUD 544 013 2010–2013  
*Making demonstrably valid and reliable forensic voice comparison a practical everyday reality in Australia*  
Lead Investigator, with 6 other named researchers  
Partner Organisations: Australian Federal Police, National Institute of Forensic Science, Australasian Speech Science and Technology Association, New South Wales Police, Queensland Police Service, Guardia Civil
- United States Government, Office of the Director of National Intelligence (ODNI), USD confidential 2010–2011  
Intelligence Advanced Research Projects Activity (IARPA), through the Army Research Laboratory (ARL),  
Subcontract through IBM Thomas J. Watson Research Center  
*Incorporation of forensic analysis techniques as part of an automatic speaker recognition system*  
Team leader at UNSW, leading a team of 6, also collaborating with a team of 5 at IBM including Principal Investigator Jason W. Pelecanos
- Spanish Ministry of Science and Innovation, EUR 66 000 2010–2013  
National Programme for Fundamental Research Projects  
*Individual voice quality in the identification of speakers*  
with Juana Gil Fernández (Lead Investigator) and 5 other named researchers

### Awards

- Simons Foundation Visiting Fellow at Isaac Newton Institute for Mathematical Sciences GBP 8 655 awarded 2016
- Australian Research Council Postdoctoral Fellowship (Industry) AUD 245 538 awarded 2010
- Social Sciences and Humanities Research Council of Canada Postdoctoral Fellowship CAD 81 000 awarded 2006
- Social Sciences and Humanities Research Council of Canada Doctoral Fellowship CAD 59 000 awarded 2003
- University of Alberta Honorary PhD Scholarship and Walter H Johns Graduate Fellowship CAD 14 566 awarded 2003

## Publication Statistics



Effective 2015, if year of online publication and year of assigned volume differ, the year counted above is the year of first publication. In the reference list below, both years are listed, e.g., (2015/2016).

\*Excludes publications in which I cite my own work. Publications which cite two or more of my publications are counted only once. There may be additional publications citing my work but not included in these counts. Counts for 2016 not complete.

**h index:** *Web of Science:* 11    *Scopus:* 12    *Google Scholar:* 25

**ORCID:** 0000-0001-8608-8207

## Selected Publications

- Morrison, G.S., Thompson, W.C. (2017). Assessing the admissibility of a new generation of forensic voice comparison testimony. *Columbia Science and Technology Law Review*, 18. [preprint at <https://ssrn.com/abstract=2883767>]
- Morrison, G.S., Kaye, D.H., Balding, D.J., Taylor, D., Dawid, P., Aitken, C.G.G., Gittelson, S., Zadora, G., Robertson, B., Willis, S., Pope, S., Neil, M., Martire, K.A., Hepler, A., Gill, R.D., Jamieson, A., de Zoete, J., Ostrum, R.B., Caliebe, A. (2016). A comment on the PCAST report: Skip the “match”/“non-match” stage. *Forensic Science International*. <http://dx.doi.org/10.1016/j.forsciint.2016.10.018>
- Zhang, C., Morrison, G.S., Enzinger, E. (2016). Use of relevant data, quantitative measurements, and statistical models to calculate a likelihood ratio for a Chinese forensic voice comparison case involving two sisters. *Forensic Science International*, 267, 115–124. <http://dx.doi.org/10.1016/j.forsciint.2016.08.017>
- Morrison, G.S., Enzinger, E. (2016). Multi-laboratory evaluation of forensic voice comparison systems under conditions reflecting those of a real forensic case (*forensic\_eval\_01*) - Introduction. *Speech Communication*. <http://dx.doi.org/10.1016/j.specom.2016.07.006>
- Morrison, G.S., Enzinger, E., Zhang, C. (2016). Refining the relevant population in forensic voice comparison – A response to Hicks et alii (2015) The importance of distinguishing information from evidence/observations when formulating propositions. *Science & Justice*, 56, 492–497. <http://dx.doi.org/10.1016/j.scijus.2016.07.002>
- Morrison, G.S., Enzinger, E. (2016). What should a forensic practitioner’s likelihood ratio be? *Science & Justice*, 56, 374–379. <http://dx.doi.org/10.1016/j.scijus.2016.05.007>
- Morrison, G.S. (2016). Special issue on measuring and reporting the precision of forensic likelihood ratios: Introduction to the debate. *Science & Justice*, 56, 371–373. <http://dx.doi.org/10.1016/j.scijus.2016.05.002>
- Morrison, G.S., Sahito, F.H., Jardine, G., Djokic, D., Clavet, S., Berghs, S., Goemans Dorny, C. (2016). INTERPOL survey of the use of speaker identification by law enforcement agencies. *Forensic Science International*, 263, 92–100. <http://dx.doi.org/10.1016/j.forsciint.2016.03.044>
- Enzinger, E., Morrison, G.S., Ochoa, F. (2015/2016). A demonstration of the application of the new paradigm for the evaluation of forensic evidence under conditions reflecting those of a real forensic-voice-comparison case. *Science & Justice*, 56, 42–57. <http://dx.doi.org/10.1016/j.scijus.2015.06.005>
- Enzinger, E., Morrison, G.S. (2015). Mismatched distances from speakers to telephone in a forensic-voice-comparison case. *Speech Communication*, 70, 28–41. <http://dx.doi.org/10.1016/j.specom.2015.03.001>

- Morrison, G.S., Stoel, R.D. (2014). Forensic strength of evidence statements should preferably be likelihood ratios calculated using relevant data, quantitative measurements, and statistical models – a response to Lennard (2013) Fingerprint identification: How far have we come? *Australian Journal of Forensic Sciences*, 46, 282–292. <http://dx.doi.org/10.1080/00450618.2013.833648>
- Morrison, G.S. (2014). Distinguishing between forensic science and forensic pseudoscience: Testing of validity and reliability, and approaches to forensic voice comparison. *Science & Justice*, 54, 245–256. <http://dx.doi.org/10.1016/j.scijus.2013.07.004>
- Morrison, G.S., Lindh, J., Curran, J.M. (2014). Likelihood ratio calculation for a disputed-utterance analysis with limited available data. *Speech Communication*, 58, 81–90. <http://dx.doi.org/10.1016/j.specom.2013.11.004>
- Grigoras, C., Smith, J.M., Morrison, G.S., Enzinger, E. (2013). Forensic audio analysis – Review: 2010–2013. In: NicDaéid, N. (Ed.), *Proceedings of the 17th International Forensic Science Mangers' Symposium, Lyon* (pp. 612–637). Lyon, France: Interpol.
- Zhang, C., Morrison, G.S., Enzinger, E., Ochoa, F. (2013). Effects of telephone transmission on the performance of formant-trajectory-based forensic voice comparison – female voices. *Speech Communication*, 55, 796–813. <http://dx.doi.org/10.1016/j.specom.2013.01.011>
- Zhang, C., Morrison, G.S., Ochoa, F., Enzinger, E. (2013). Reliability of human-supervised formant-trajectory measurement for forensic voice comparison. *Journal of the Acoustical Society of America*. 133, EL54–EL60. <http://dx.doi.org/10.1121/1.4773223>
- Morrison, G.S. (2013). Tutorial on logistic-regression calibration and fusion: Converting a score to a likelihood ratio. *Australian Journal of Forensic Sciences*, 45, 173–197. <http://dx.doi.org/10.1080/00450618.2012.733025>
- Morrison, G.S. (2013). Vowel inherent spectral change in forensic voice comparison. In G.S. Morrison & P. F. Assmann (Eds.) *Vowel inherent spectral change* (ch. 11 / pp. 263–282). Heidelberg, Germany: Springer-Verlag. [http://dx.doi.org/10.1007/978-3-642-14209-3\\_11](http://dx.doi.org/10.1007/978-3-642-14209-3_11)
- Enzinger, E., Morrison, G.S. (2012). The importance of using between-session test data in evaluating the performance of forensic-voice-comparison systems. In *Proceedings of the 14th Australasian International Conference on Speech Science and Technology, Sydney* (pp. 137–140). Australasian Speech Science and Technology Association.
- Morrison, G.S., Ochoa, F., Thiruvaran, T. (2012). Database selection for forensic voice comparison. In *Proceedings of Odyssey 2012: The Language and Speaker Recognition Workshop, Singapore* (pp. 62–77). International Speech Communication Association.
- Enzinger, E., Zhang, C., Morrison, G.S. (2012). Voice source features for forensic voice comparison – an evaluation of the GLOTTEX® software package. In *Proceedings of Odyssey 2012: The Language and Speaker Recognition Workshop, Singapore* (78–85). International Speech Communication Association. [errata and addenda available on my website]
- Morrison, G.S. (2012). The likelihood-ratio framework and forensic evidence in court: A response to R v T. *International Journal of Evidence and Proof*, 16, 1–29. <http://dx.doi.org/10.1350/ijep.2012.16.1.390>
- Morrison, G.S., Rose, P., Zhang, C. (2012). Protocol for the collection of databases of recordings for forensic-voice-comparison research and practice. *Australian Journal of Forensic Sciences*, 44, 155–167. <http://dx.doi.org/10.1080/00450618.2011.630412>
- Lindh, J., Morrison, G.S. (2011). Forensic voice comparison by humans and machine: Forensic voice comparison on a small database of Swedish voice recordings. In W.-S. Lee & E. Zee (Eds.), *Proceedings of the 17th International Congress of Phonetic Sciences, Hong Kong, China* (pp. 1254–1257). Hong Kong: Organizers of ICPhS XVII at the Department of Chinese, Translation and Linguistics, City University of Hong Kong.
- Zhang, C., Morrison, G.S., Thiruvaran, T. (2011). Forensic voice comparison using Chinese /iau/. In W.-S. Lee & E. Zee (Eds.), *Proceedings of the 17th International Congress of Phonetic Sciences, Hong Kong, China* (pp. 2280–2283). Hong Kong: Organizers of ICPhS XVII at the Department of Chinese, Translation and Linguistics, City University of Hong Kong.
- Morrison, G.S. (2011). Measuring the validity and reliability of forensic likelihood-ratio systems. *Science & Justice*, 51, 91–98. <http://dx.doi.org/10.1016/j.scijus.2011.03.002>
- Morrison, G.S. (2011). A comparison of procedures for the calculation of forensic likelihood ratios from acoustic-phonetic data: Multivariate kernel density (MVKD) versus Gaussian mixture model – universal background model (GMM-UBM). *Speech Communication*, 53, 242–256.
- Morrison, G.S., Zhang, C., Rose, P. (2011). An empirical estimate of the precision of likelihood ratios from a forensic-voice-comparison system. *Forensic Science International*, 208, 59–65. <http://dx.doi.org/10.1016/j.forsciint.2010.11.001>
- Morrison, G.S. (2010). Forensic voice comparison. In I. Freckelton, H. Selby (Eds.), *Expert Evidence* (Ch. 99). Sydney, Australia: Thomson Reuters.
- Morrison, G.S., Thiruvaran, T., Epps, J. (2010). Estimating the precision of the likelihood-ratio output of a forensic-voice-comparison system. *Proceedings of Odyssey 2010: The Language and Speaker Recognition Workshop, Brno, Czech Republic* (pp. 63–70).
- Morrison, G.S. (2009). Forensic voice comparison and the paradigm shift. *Science & Justice*, 49, 298–308. <http://dx.doi.org/10.1016/j.scijus.2009.09.002>
- Morrison, G.S. (2009). Comments on Coulthard & Johnson's (2007) portrayal of the likelihood-ratio framework. *Australian Journal of Forensic Sciences*, 41, 155–161. <http://dx.doi.org/10.1080/00450610903147701>
- Rose, P., Morrison, G.S. (2009). A response to the UK position statement on forensic speaker comparison. *International Journal of Speech, Language and the Law*, 16, 139–163. <http://dx.doi.org/10.1558/ijsl.v16i1.139>

- Morrison, G.S. (2009). Likelihood-ratio forensic voice comparison using parametric representations of the formant trajectories of diphthongs. *Journal of the Acoustical Society of America*, 125, 2387–2397. <http://dx.doi.org/10.1121/1.3081384>
- Morrison, G.S., Kinoshita, Y. (2008). Automatic-type calibration of traditionally derived likelihood ratios: Forensic analysis of Australian English /o/ formant trajectories. *Proceedings of Interspeech 2008 Incorporating SST 2008* (pp. 1501–1504). International Speech Communication Association.
- Zhang, C., Morrison, G.S., Rose, P. (2008). Forensic speaker recognition in Chinese: A multivariate likelihood ratio discrimination on /i/ and /y/. *Proceedings of Interspeech 2008 Incorporating SST 2008* (pp. 1937–1940). International Speech Communication Association.
- Morrison, G.S. (2008). Forensic voice comparison using likelihood ratios based on polynomial curves fitted to the formant trajectories of Australian English /aɪ/. *International Journal of Speech, Language and the Law*, 15, 249–266. <http://dx.doi.org/10.1558/ijssl.v15i2.249>

## Selected Workshops, Tutorials, and Presentations

### Workshops and Talks at Forensic Laboratories

- Morrison, G.S. (2016, December). *Forensic voice companion: validation and admissibility*. Talk given at Digital, Cyber and Communications - Audio / Video Laboratory, Metropolitan Police Service, London, England, United Kingdom.
- Morrison, G.S. (2013, May). *Workshop on forensic speech science*. Workshop given at Institut de Recherche Criminelle de la Gendarmerie Nationale, Paris, France.
- Morrison, G.S. (2013, April). *Testing the validity and reliability of likelihood-ratio systems & Calibrating likelihood-ratio systems*. Talk given at the Netherlands Forensic Institute, The Hague, The Netherlands.
- Morrison, G.S. (2013, April). *Introduction to the likelihood-ratio framework for the evaluation of forensic evidence*. Workshop given at Victoria Police Forensic Services Centre, Melbourne, Victoria, Australia.
- Morrison, G.S. (2013, February). *Introduction to the likelihood-ratio framework for the evaluation of forensic evidence*. Workshop given at Queensland Police Forensic Services Branch, Brisbane, Queensland, Australia.
- Morrison, G.S. (2010, April). *Forensic voice comparison and the paradigm shift in forensic science*. Talk given at the Netherlands Forensic Institute, The Hague, The Netherlands.
- Morrison, G.S. (2009, July). *The place of forensic voice comparison in the ongoing paradigm shift*. Talk given at the Forensic and Data Centres, Australian Federal Police, Canberra, ACT, Australia.
- Morrison, G.S. (2008, July). *Combining acoustic-phonetic and automatic approaches to forensic speaker comparison: Calibration and fusion of likelihood-ratios extracted from the formant trajectories of diphthongs*. Talk given at Department of Speaker Identification and Audio Analysis, German Federal Police, Wiesbaden, Germany.

### Tutorials and Workshops at Conferences

- Morrison, G.S. (2016, October). *Estadística aplicada al ámbito forense* [Applied forensic statistics]. Pre-conference workshop Reunión de Conformación de la Red Temática de Ciencias Forenses, Universidad Nacional Autónoma de México, Ciudad de México, México.
- Morrison, G.S. (2015, November). *Workshop on Bayesian reasoning for the evaluation of forensic evidence, calculation of likelihood ratios as strength of evidence statements, and testing of the validity and reliability of forensic analysis systems*. Workshop given at the XXIII Congresso Nacional De Criminalística, Armação dos Búzios, Rio de Janeiro, Brazil.
- Morrison, G.S. (2012, August). *An introduction to data-based calculation of likelihood ratios and assessment of validity and reliability*. Workshop presented at the European Academy of Forensic Science (EAFS) Conference, The Hague, The Netherlands.
- Morrison, G.S. (2012, June). *Workshop on validity and reliability in forensic voice comparison*. Invited workshop presented at National Center for Media Forensics, University of Colorado Denver immediately prior to the 46th Audio Engineering Society (AES) Conference on Audio Forensics: Recording, Recovery, Analysis, and Interpretation, Denver, Colorado, USA.
- Morrison, G.S., Ramos, D. (2010, November). *Forensic voice comparison*. Tutorial at the 2nd Pan-American/Iberian Meeting on Acoustics / 160th Meeting of the Acoustical Society of America, Cancún, Quintana Roo, Mexico.
- Morrison, G.S. (2010, June). *Tutorial on forensic comparison of audio recordings in the same framework as is standard for forensic comparison of DNA profiles*. Tutorial at the 39th International Audio Engineering Society (AES) Conference – Audio Forensics: Practices and Challenges, Hillerød, Denmark.
- Kinoshita, Y., Morrison, G.S., Ramos, D. (2008, September). *Forensic speaker comparison - Likelihood ratios - As not seen on TV*. Tutorial at the Interspeech 2008 Conference, Brisbane, Queensland, Australia.

## Conference Presentations

- Morrison, G.S. (2016, November). *What should a forensic scientist's likelihood ratio be?* Invited presentation at the Workshop on Statistical Modelling of Scientific Evidence, Isaac Newton Institute for Mathematical Sciences, Cambridge, England, United Kingdom.
- Morrison, G.S. (2016, October). *Taller básico de estadística forense* [Basic workshop on forensic statistics]. Reunión de Conformación de la Red Temática de Ciencias Forenses, Cuernavaca, Morelos, México.
- Morrison, G.S., Enzinger, E. (2016, June). *Multi-laboratory evaluation of forensic voice comparison systems under conditions reflecting those of a real forensic case forensic\_eval\_01*. Invited presentation as part of the panel on forensic and investigative speaker recognition, Odyssey Speaker and Language Recognition Workshop, Bilbao, The Basque Country, Spain.
- Morrison, G.S., Enzinger, E. (2016, May). *Topic 1: Score vs feature based approach to compute likelihood ratios. Topic 1b: Focus on score-based approaches. Talk 2*. Invited presentation at the Netherlands Forensic Institute (NFI) Workshop on Theory and Implementation of Numerical Likelihood Ratio Methods, The Hague, The Netherlands.
- Morrison, G.S., Enzinger, E. (2016, May). *A new paradigm for forensic science and its implementation in forensic voice comparison*. Invited presentation at the National Institute for Standards and Technology (NIST) Workshop on Quantifying the Weight of Forensic Evidence, Gaithersburg, MD, USA. (part of the International Biometric Performance Testing Conference 2016)
- Morrison, G.S., Enzinger, E. (2016, January). *A new paradigm for forensic science and its application to forensic voice comparison*. Invited presentation to the meeting of the Speaker Recognition Subcommittee of the National Institute for Standards and Technology (NIST) Organization of Scientific Area Committees (OSAC). Leesburg, VA, USA.
- Morrison, G.S. (2015, September). *Measuring and reporting the precision of forensic likelihood ratios: A good idea or a bad idea?* Debate organised at the European Academy of Forensic Science (EAFS) Conference, Prague, Czech Republic.
- Invited panel discussant in: Campbell, J. P., Bonastre, J.-F., Eriksson, A, Nakasone H., Schwartz, R. (Organisers) (2015, September). *Speaker comparison for forensic and investigative applications*. Special Event at Interspeech 2015, Dresden, Germany.
- Morrison, G.S. (2013, September). *An introduction to the likelihood-ratio framework for the evaluation of forensic evidence*. Paper presented at the 36th Canadian Identification Society Annual Education Conference, Vancouver, British Columbia, Canada.
- Morrison, G.S., (2012, June). *How does forensic voice comparison differ from automatic speaker recognition? With a particular focus on database selection*. Chinese and Oriental Languages Information Processing Society (COLIPS) Distinguished Lecturer at Nanyang Technological University (NTU) in conjunction with Odyssey 2012: The Language and Speaker Recognition Workshop, Singapore.
- Morrison, G.S. (2011, February). *The new paradigm in forensic science*. Invited presentation at the National Judicial College of Australia Expert Evidence Conference, Canberra, Australian Capital Territory, Australia.

## Forensic Casework

- worked on a total of 23 cases
  - written reports submitted in relation to 15 criminal cases (8 requested by the prosecution and 7 by the defence)
  - written report submitted in relation to 2 civil cases (both requested by the plaintiff)
  - written report submitted in relation to 1 journalistic case
  - statistical advice and customised analytical software provided in relation to 1 civil case
  - contribution to 2 amicus briefs
  - oral testimony in court in 4 cases (all at the behest of the defence)
- 
- Tobin, King, Lateef, Brisbane, QLD, Australia 2016
    - Retained in relation to a civil case
  
  - Civil case in China 2016
    - Provided statistical advice and customised analytical software to lead forensic practitioner in the case (Prof Cuiling Zhang)
  
  - Reprieve US, New York, NY, USA 2015
    - Abu Wa'el Dhiab v Barack H Obama et al, Civ. No. 05-1457 (GK)
    - Informational report on speaker identification submitted
    - <http://pdfserver.amlaw.com/nlj/10-20-15%20dhiab%20motion%20to%20compel.pdf>

- Rothman, Schneider, Soloway & Stern, New York, NY, USA 2014 – 2015  
 United States v Ali Ahmed, Madhi Hashi, & Muhamed Yusuf [EDNY 12-CR-661(SLT)]  
 - Provided training and advice to Yusuf defence in relation to a Daubert hearing on the admissibility of a forensic voice comparison analysis proffered by the prosecution.  
 - Provided a written critique of the forensic voice comparison report proffered by the prosecution.
- 4th District Public Defender’s Office, Minneapolis, MN, USA 2014 – 2015  
 Minnesota v David Johnson Jr  
 - Report on non-technical speaker identification by lay persons submitted
- Canadian Press, Ottawa, ON, Canada 2014  
 - Critique of a forensic-voice-comparison report produced by another forensic scientist  
<http://forensic-evaluation.net/raynolds/>
- Supreme Court of the United States 2013  
 Clacy Watson Herrera v United States, No. 12-1461  
 - One of 25 scientists and scholars contributing to an Amicus Brief.
- Crime Investigation Unit, Victoria Police, Boroondara, VIC, Australia 2012 – 2013  
 - Preliminary report on forensic voice comparison.  
 - Forensic voice comparison - report on full analysis submitted - suspect changed plea
- Emery Partners Solicitors, Newcastle, NSW, Australia 2012–2013  
 - Forensic voice comparison - report on full analysis submitted
- Aquila Lawyers, Sydney, NSW, Australia 2012  
 R v Christina My Phung Ly  
 - Report on preliminary analysis of voice recording and critique of a forensic-voice-comparison report produced by another forensic scientist.  
 - Presentation of oral evidence in court (voir dire and before jury).
- Fisher Dore Lawyers, Brisbane, QLD, Australia 2012  
 Peter Foster ats Australian Competition and Consumer Commission  
 - Report on preliminary analysis of voice recording and critique of a forensic-voice-comparison report produced by another forensic scientist.  
 - Presentation of oral evidence in court.
- Herbert Geer Lawyers, Melbourne, VIC, Australia 2012  
 - Preliminary report on forensic voice comparison.
- South Australian Office of the Director of Public Prosecutions, Adelaide, SA, Australia, and Criminal Investigations Branch, South Australia Police, Holden Hill, SA, Australia 2012  
 - Written critique of a forensic-voice-comparison report produced by another forensic scientist.
- Criminal Investigations Branch, South Australia Police, Port Augusta, SA, Australia 2012  
 - Preliminary report on forensic voice comparison.
- United States Court of Appeals for the Ninth Circuit 2012  
 Nelson Acosta-Roque v Eric Holder Jr, No. 11-70705  
 - One of 39 scientists and scholars contributing to an Amicus Brief.
- Henry Sklarz Lawyers, Perth, WA, Australia 2011  
 State of Western Australia v Thi Dieu Linh Lai [WA Dist Ct, No 654 of 2011]  
 - Presentation of oral evidence in court on non-technical speaker identification by lay persons.
- Garde-Wilson Lawyers, Melbourne, VIC, Australia 2009  
 - Preliminary report on forensic voice comparison.

- D G Price & Co, Barristers & Solicitors, Perth, WA, Australia 2009  
 State of Western Australia v Cameron James Mansell [WA Dist Ct, No 665 of 2008]  
 - Written report on non-technical speaker identification by lay persons submitted to court.  
 - Presentation of oral evidence in court.
- Purana Taskforce, Victoria Police, Melbourne, VIC, Australia 2009  
 - Preliminary report on forensic voice comparison
- South East Asian Crime Squad, New South Wales Police, Sydney, NSW, Australia 2009  
 - Preliminary report on forensic voice comparison
- Jim Young, Barrister-at-Law, Sydney, NSW, Australia 2009  
 - Written report on non-technical speaker identification by lay persons submitted to court.
- Ford Criminal Lawyers, Sydney, NSW, Australia 2008  
 - Preliminary report on forensic voice comparison
- Major Crash Investigation Unit, South Australia Police, Adelaide, SA, Australia 2008  
 - Preliminary report on forensic voice comparison

## Other Activities

### Journals

- Speech Communication
  - Member of the Editorial Board 2015 – present
  - Guest Editor (with Ewald Enzinger) 2016 – 2018
  - Subject Editor 2012 – 2014
- Science & Justice
  - Guest Editor 2016 – 2017
- Reviewer
  - Science & Justice, Forensic Science International, Australian Journal of Forensic Sciences,  
 Canadian Society of Forensic Science Journal, Sydney Law Review, Speech Communication,  
 IET Biometrics, Journal of the Acoustical Society of America, Journal of Phonetics

### Committee Memberships

- US National Institute of Standards and Technology (NIST), 2015 – present  
 Organization of Scientific Area Committees (OSAC)  
 Affiliate Member of Speaker Recognition Subcommittee
- Acoustical Society of America  
 Chair of the Forensic Acoustics Subcommittee 2010 – 2013
- Australasian Speech Science & Technology Association  
 Member of Forensic Speech Science Committee 2010 – 2013
- International Association for Forensic Phonetics and Acoustics  
 Member of Research Committee 2010 – 2012