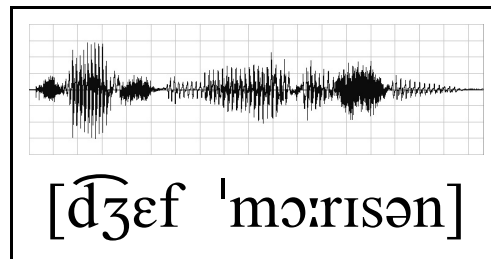


Geoffrey Stewart Morrison

BSc MTS MA PhD FCSFS

Abridged Curriculum Vitae

updated 1 April 2021



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Highlights

- **Director and Forensic Consultant**, Forensic Evaluation Ltd, 2017–present. **Independent Forensic Consultant**, 2013–2017.
- **Associate Professor of Forensic Speech Science**, Aston University, 2017–present
 - **Director**, Forensic Data Science Laboratory & Forensic Speech Science Laboratory, Department of Computer Science & Aston Institute for Forensic Linguistics, 2019–present
- **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.
- **Senior Research Fellow and Director**, Forensic Voice Comparison Laboratory, School of Electrical Engineering & Telecommunications, University of New South Wales. 2010–2013.
- **Fellow of the Chartered Society of Forensic Sciences**, 2019–present.
- **Chair**, British Standards Institution (BSI) Forensic Science committee, 2019–present; **Committee Member**, BSI and International Organization for Standardization (ISO) Forensic Science committees, 2018–present.
- **Aston Achievement Award for Outstanding Research Impact**, 2019.
- **Guest Editor**, *Speech Communication*, 2016–2019. **Subject Editor**, 2012–2014.
- **Guest Editor**, *Science & Justice*, 2016–2017.
- Total research funding obtained: ~USD 8 750 000
- Total number of publications: 73
- Total number of publications in forensic science: 53
- Total number of forensic cases worked on: 31
- Jurisdictions: Australia (NSW, QLD, SA, VIC, WA), Canada, China, Northern Ireland, Sweden, United States (Federal, CO, MN)

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

Employment / Research & Teaching Appointments

- Director and Forensic Consultant 2017 – present
Forensic Evaluation Ltd, Birmingham, England, UK
- Associate Professor of Forensic Speech Science 2017 – present
- Director, Forensic Data Science Laboratory & Forensic Speech Science Laboratory 2019 – present
Department of Computer Science & Aston Institute for Forensic Linguistics,
Aston University, Birmingham, England, UK
- Independent Forensic Consultant 2013 – 2017
Vancouver, British Columbia, Canada
- Adjunct Professor 2015 – 2017
- 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

Research Funding

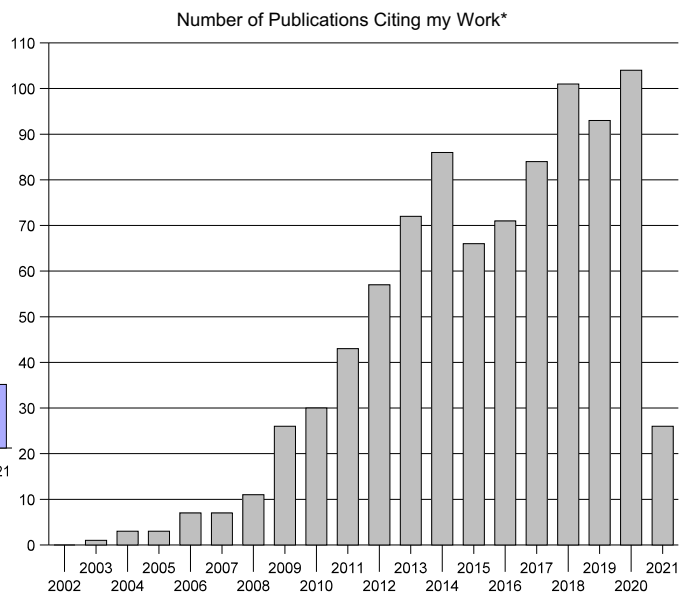
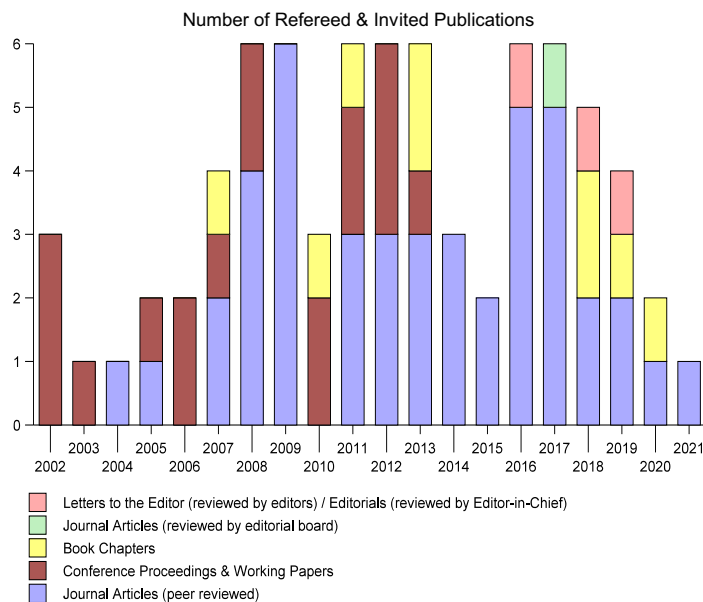
Grants and contracts

- UK Research and Innovation (UKRI), Research England, Expanding Excellence in England Fund (E3) 2019–2022
Aston Institute for Forensic Linguistics
One of a team of 4 applicants. I took the lead on drafting the scientific portion of the application.
Total value GBP 6 000 000
- Australian Research Council Linkage Project 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
Total value AUD 544 000
- United States Government, Office of the Director of National Intelligence (ODNI), 2010–2011
Intelligence Advanced Research Projects Activity (IARPA), through the Army Research Laboratory (ARL)
Incorporation of forensic analysis techniques as part of an automatic speaker recognition system
Team leader at UNSW, leading a team of 6, collaborating with a team of 5 at IBM T J Watson Labs
Total value confidential

Awards

- Aston Achievement Award for Outstanding Research Impact (awarded to Centre for Forensic Linguistics team) 2019
- Simons Foundation Visiting Fellow at Isaac Newton Institute for Mathematical Sciences 2016
- Australian Research Council Postdoctoral Fellowship (Industry) 2010
- Social Sciences and Humanities Research Council of Canada Postdoctoral Fellowship 2006
- Social Sciences and Humanities Research Council of Canada Doctoral Fellowship 2003
- University of Alberta Honorary PhD Scholarship and Walter H Johns Graduate Fellowship 2003

Publication Statistics



*Excludes publications in which I cite my own work.

Publications which cite two or more of my publications are counted only once.

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).

h index: *Web of Science:* (17)

Scopus: 20 (17)

Research Gate: 23 (22)

Google Scholar: 31

ORCID: 0000-0001-8608-8207

(values in parentheses exclude self citations)

Selected Publications

- Morrison, G.S., Enzinger, E., Hughes, V., Jessen, M., Meuwly, D., Neumann, C., Planting, S., Thompson, W.C., van der Vloed, D., Ypma, R.J.F., Zhang, C., Anonymous, A., Anonymous, B. (2021). Consensus on validation of forensic voice comparison. *Science & Justice*. <https://doi.org/10.1016/j.scijus.2021.02.002>
- Morrison, G.S., Enzinger, E., Ramos, D., González-Rodríguez, J., Lozano-Díez, A. (2020). Statistical models in forensic voice comparison. In Banks, D.L., Kafadar, K., Kaye, D.H., Tackett, M. (Eds.), *Handbook of Forensic Statistics* (Ch. 20, pp. 451–497). Boca Raton, FL: CRC. <https://doi.org/10.1201/9780367527709> [Preprint at: <http://handbook-of-forensic-statistics.forensic-voice-comparison.net/>]
- Morrison, G.S., Neumann, C., Geoghegan, P.H. (2020). Vacuous standards – subversion of the OSAC standards-development process. *Forensic Science International: Synergy*, 2, 206–209. <https://doi.org/10.1016/j.fsisyn.2020.06.005> (Invited and peer-reviewed perspective paper.)
- Rosas, C., Sommerhoff, J., Morrison, G.S. (2019). A method for calculating the strength of evidence associated with an earwitness's claimed recognition of a familiar speaker. *Science & Justice*, 59, 585–596. <https://doi.org/10.1016/j.scijus.2019.07.001>
- Morrison, G.S., Enzinger, E. (2019). Multi-laboratory evaluation of forensic voice comparison systems under conditions reflecting those of a real forensic case (*forensic_eval_01*) - Conclusion. *Speech Communication*, 112, 37–39. <https://doi.org/10.1016/j.specom.2019.06.007>
- Morrison, G.S., Kelly, F. (2019). A statistical procedure to adjust for time-interval mismatch in forensic voice comparison. *Speech Communication*, 112, 15–21. <https://doi.org/10.1016/j.specom.2019.07.001>
- Morrison, G.S., Enzinger E. (2019). Introduction to forensic voice comparison. In Katz W.F., Assmann P.F. (Eds.) *The Routledge Handbook of Phonetics* (ch. 21, pp. 599–634). Abingdon, UK: Taylor & Francis. <https://doi.org/10.4324/9780429056253>
- Morrison, G.S., Ballantyne, K., Geoghegan, P.H. (2018). A response to Marquis et al (2017) What is the error margin of your signature analysis? *Forensic Science International*, 287, e11–e12. <https://doi.org/10.1016/j.forsciint.2018.03.009>
- Morrison, G.S. (2018). Admissibility of forensic voice comparison testimony in England and Wales. *Criminal Law Review*, (1), 20–33. [preprint at http://geoff-morrison.net/#Admissibility_EW_2018]

- Morrison, G.S., Enzinger, E., Zhang, C. (2018). Forensic speech science. In I. Freckelton, H. Selby (Eds.), *Expert Evidence* (Ch. 99). Sydney, Australia: Thomson Reuters. [preprint at <http://expert-evidence.forensic-voice-comparison.net/>]
- Morrison, G.S., Poh, N. (2017/2018). Avoiding overstating the strength of forensic evidence: Shrunken likelihood ratios / Bayes' factors. *Science & Justice*, 58, 200–218. <http://dx.doi.org/10.1016/j.scijus.2017.12.005>
- Morrison, G.S. (2017/2018). The impact in forensic voice comparison of lack of calibration and of mismatched conditions between the known-speaker recording and the relevant-population sample recordings. *Forensic Science International*, 283, e1–e7. <http://dx.doi.org/10.1016/j.forsciint.2017.12.024>
- Morrison, G.S., Enzinger, E. (2017/2018). Score based procedures for the calculation of forensic likelihood ratios – Scores should take account of both similarity and typicality. *Science & Justice*, 58, 47–58. <http://dx.doi.org/10.1016/j.scijus.2017.06.005>
- Morrison, G.S. (2017). A response to: “NIST experts urge caution in use of courtroom evidence presentation method”. http://forensic-evaluation.net/NIST_press_release_2017_10/ <https://arxiv.org/abs/1710.05878> https://ssrn.com/abstract_id=3054092
- Morrison, G.S. (2017). What should a forensic practitioner's likelihood ratio be? II. *Science & Justice*, 57, 472–476. <http://dx.doi.org/10.1016/j.scijus.2017.08.004>
- Enzinger, E., Morrison, G.S. (2017). Empirical test of the performance of an acoustic-phonetic approach to forensic voice comparison under conditions similar to those of a real case. *Forensic Science International*, 277, 30–40. <http://dx.doi.org/10.1016/j.forsciint.2017.05.007>
- 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, 326–434. <https://doi.org/10.7916/stlr.v18i2.4022> [preprints at <https://ssrn.com/abstract=2883767> and <https://www.newton.ac.uk/files/preprints/ni16053.pdf>]
- Morrison, G.S., Enzinger, E., Zhang, C. (2017). Reply to Hicks *et alii* (2017) Reply to Morrison *et alii* (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. <http://arxiv.org/abs/1704.07639>
- 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.M., Pope, S., Neil, M., Martire, K.A., Hepler, A., Gill, R.D., Jamieson, A., de Zoete, J., Ostrum, R.B., Caliebe, A. (2016/2017). A comment on the PCAST report: Skip the “match”/“non-match” stage. *Forensic Science International*, 272, e7–e9. <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> [preprint at: <http://arxiv.org/abs/2012.12198>]

- 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
- 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. <https://assta.org/proceedings/sst/SST-12/SST2012/PDF/AUTHOR/ST120086.PDF>
- 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/ijssl.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 and Legal Practices

- Morrison, G.S. (2017, September). *The likelihood ratio framework for the evaluation of forensic evidence, and validation of forensic analysis systems*. Workshop given at the Innocence Project, New York, NY, USA.
- 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., (2019, July). *Introduction to likelihood ratios*. Tutorial at the meeting of the Organization of Scientific Area Committees for Forensic Science (OSAC). Orlando, FL, USA.
- Morrison, G.S. (2018, May). *Introduction to the likelihood ratio framework for the evaluation of forensic evidence*. Tutorial at the Keeping up with Forensic Science Conference. Organized by Cook County Public Defender Office, Forensic Science Division. Hosted by Loyola University School of Law, Chicago, IL, USA.
- 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. (2017, November). *Forensic science for biometricians*. Paper presented at the Chartered Society of Forensic Sciences Conference “Forensic Biometrics: the future”, Nottingham, England, UK.
- Morrison, G.S., Poh, N. (2017, September). *Statistical procedures intended to avoid overestimating the strength of forensic evidence*. Paper presented at the 10th International Conference on Forensic Inference and Statistics (ICFIS), Minneapolis, MN, USA.
- Morrison, G.S. (2017, June). *What should a forensic scientist’s likelihood ratio be?* Invited presentation at the National Institute for Standards and Technology (NIST) Colloquium on Quantifying the Weight of Forensic Evidence, Gaithersburg, MD, USA.
- Invited panel discussant in: (2017, June) *Validation and Inter-laboratory testing and Population statistics*. National Institute for Standards and Technology (NIST) Colloquium on Quantifying the Weight of Forensic Evidence, Gaithersburg, MD, USA.
- 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 31 cases
- oral testimony in court in 4 criminal cases (1 at the request of the prosecution, 3 at the request of the defence)
- oral testimony in court in 1 civil case (at the request of the respondent)
- full forensic voice comparison analysis conducted in relation to 3 cases (2 at the request of the prosecution, 1 at the request of the defence)
- statistical advice and customised analytical software provided in relation to 1 civil case
- written reports submitted in relation to 22 criminal cases (8 at the request of the prosecution, 14 at the request of the defence)
- written report submitted in relation to 2 civil cases (1 at request of plaintiff, 1 at request of respondent)
- written report submitted in relation to 1 journalistic case
- contribution to 2 amicus briefs

McNamee McDonnell Solicitors, Newry, Northern Ireland	2019
<ul style="list-style-type: none">• Provided a written critique of a forensic voice comparison report prepared by another forensic practitioner.	
Duffy Solicitors Ltd, Newry, Northern Ireland	2019
<ul style="list-style-type: none">• Provided a written critique of a forensic voice comparison report prepared by another forensic practitioner.	
Advokaterna Hurtig & Partners AB, Gothenburg, Sweden	2018
<ul style="list-style-type: none">• Provided a written critique of a forensic voice comparison report prepared by another forensic practitioner.• My written submission was considered by the court.	
Public Prosecution Service of Canada, Anti-Organized Crime (Central & East), Toronto, ON, Canada	2017–2018
R v Dunstan [2018] ONSC 4153	
<ul style="list-style-type: none">• Forensic voice comparison - report on full analysis submitted• Provided a critique of a forensic voice comparison report prepared by another forensic practitioner.• Oral testimony in court on the forensic voice comparison analysis conducted, and on speaker recognition by laypeople.	
KRW LAW-LLP, Belfast, Northern Ireland	2017–2018
<ul style="list-style-type: none">• Provided a written report detailing what would be necessary in order to conduct a forensic voice comparison given the conditions of the case – subject of a discovery hearing.	
Jeffreys Lawyers, Sydney, NSW, Australia	2017
<ul style="list-style-type: none">• Provided a written critique of a forensic voice comparison report prepared by another forensic practitioner.	
Universal Law, Mullumbimby, NSW, Australia	2017
<ul style="list-style-type: none">• Provided a written critique of a forensic voice comparison report prepared by another forensic practitioner.	
Ridley, McGreevy & Winocur, Denver, CO, USA	2017
<ul style="list-style-type: none">• Provided transcript of faint speech on audio recording.	
Tobin King Lateef Lawyers (for plaintiff) and HWL Ebsworth Lawyers (for respondent),	2017

- Brisbane, QLD, Australia
- Single jointly instructed expert in a civil case.
- Prof Cuiling Zhang, School of Criminal Investigation, Southwest University of Political Science and Law, 2016
Chongqing, China
- Provided statistical advice and customised analytical software for a civil forensic voice comparison case.
- Reprive 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 to court
- <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 a forensic voice comparison report prepared by another forensic practitioner.
- 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
- Provided a written critique of a forensic voice comparison report prepared by another forensic practitioner.
- <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
- 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.
 - Oral testimony in court

Fisher Dore Lawyers, Brisbane, QLD, Australia	2012
Peter Foster at Australian Competition and Consumer Commission (civil case)	
<ul style="list-style-type: none"> • Report on preliminary analysis of voice recording and critique of a forensic-voice-comparison report produced by another forensic scientist. • Oral testimony in court 	
Herbert Geer Lawyers, Melbourne, VIC, Australia	2012
<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • Provided a written critique of a forensic voice comparison report prepared by another forensic practitioner. 	
Criminal Investigations Branch, South Australia Police, Port Augusta, SA, Australia	2012
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • 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]	
<ul style="list-style-type: none"> • Oral testimony in court regarding non-technical speaker identification by lay persons. 	
Garde-Wilson Lawyers, Melbourne, VIC, Australia	2009
<ul style="list-style-type: none"> • 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]	
<ul style="list-style-type: none"> • Written report on non-technical speaker identification by lay persons submitted. • Oral testimony in court regarding non-technical speaker identification by lay persons. 	
Purana Taskforce, Victoria Police, Melbourne, VIC, Australia	2009
<ul style="list-style-type: none"> • Preliminary report on forensic voice comparison 	
South East Asian Crime Squad, New South Wales Police, Sydney, NSW, Australia	2009
<ul style="list-style-type: none"> • Preliminary report on forensic voice comparison 	
Jim Young, Barrister-at-Law, Sydney, NSW, Australia	2009
<ul style="list-style-type: none"> • Written report on non-technical speaker identification by lay persons submitted. 	

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	2016 – 2019
Subject Editor	2012 – 2014
• Science & Justice	
• Guest Editor	2016 – 2017
• Reviewer for:	
Science & Justice	Speech Communication
Forensic Science International	IET Biometrics
Forensic Science International: Reports	Journal of the Acoustical Society of America
Journal of Forensic Sciences	Canadian Acoustics
Australian Journal of Forensic Sciences	Journal of Phonetics
Canadian Society of Forensic Science Journal	Journal of Memory and Language
Journal of the Royal Statistical Society: Series A	Policing: A Journal of Policy and Practice
Chemometrics and Intelligent Laboratory Systems	
Sydney Law Review	

Committee Memberships

• British Standards Institution (BSI) and International Organization for Standardization (ISO)	
- Chair BSI FSM/1 - Forensic Science	2019 – present
- Committee Member BSI FSM/1 and ISO TC 272 - Forensic Science	2018 – present
Contributing to development of ISO 21043 Forensic Science.	
Part 3: Analysis. Part 4: Interpretation. Part 5: Reporting.	
• US National Institute of Standards and Technology (NIST),	
Organization of Scientific Area Committees (OSAC) for Forensic Science	
- Affiliate Member of Speaker Recognition Subcommittee	2015 – 2020
• 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