Geoffrey Stewart Morrison

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In a citation-based ranking, **I am ranked in the top 0.35% of scientists in Legal & Forensic Medicine**.
https://doi.org/10.17632/btchxktzyw.8

Michael J Saks, Regents Professor, Sandra Day O'Connor College of Law and Department of Psychology, Arizona State University:

- "Your paradigm article [2022 Advancing a paradigm shift in evaluation of forensic evidence: The rise of forensic data science] is an excellent piece. It should be a guiding light for quite some time (for anyone interested in being guided). You see both the promise and the challenges more clearly and completely than most of us."

William C Thompson, Professor Emeritus, School of Law, and Department of Criminology, Law & Society, University of California Irvine:

- "Morrison is one of the leading thinkers in the world about problems of forensic inference. Few have his ability to understand and explain forensic statistics."

1 Education and Qualifications

University of Alberta
Edmonton, Alberta, Canada

Doctor of Philosophy (Linguistics) Sept 2003 – July 2006

Primary Subject: Phonetics

Dissertation: *L1 & L2 production and perception of English and Spanish vowels: A statistical modelling approach*

Simon Fraser University
Burnaby, British Columbia, Canada

Master of Arts (Linguistics) Jan 2001 – July 2002

Primary Subject: Phonetics

Thesis: *Effects of L1 duration experience on Japanese and Spanish listeners' perception of English high front vowels*

Vancouver School of Theology
Vancouver, British Columbia, Canada

Master of Theological Studies 1992 – 1995

University of Dundee
Dundee, Scotland, UK

Bachelor of Science (General Sciences) 1987 – 1990

Primary Subject: Physics

2 Work Experience

Forensic Evaluation Ltd
Birmingham, England, UK

Director and Forensic Consultant July 2017 – present

Aston University
Aston Institute for Forensic Linguistics
Birmingham, England, UK

Professor Aug 2025 – present

Director, Forensic Data Science Laboratory Aug 2019 – present

Associate Professor July 2017 – July 2025

Self Employed
Vancouver, British Columbia, Canada

Independent Forensic Consultant Sept 2013 – June 2017

University of Alberta
Department of Linguistics
Edmonton, Alberta, Canada

Adjunct Professor		July 2015 – June 2017
Adjunct Associate Professor	non-remunerated positions	Oct 2010 – June 2015

University of Cambridge
Isaac Newton Institute for Mathematical Sciences
Probability and Statistics in Forensic Science Programme
Cambridge, England, UK

Simons Foundation Visiting Fellow	4-month fellowship	Aug – Dec 2016

International Criminal Police Organization (INTERPOL)
General Secretariat
Office of Legal Affairs
Lyon, France

Scientific Counsel	6-month contract	April – Sept 2015

University of New South Wales
School of Electrical Engineering and Telecommunications
Sydney, New South Wales, Australia

Visiting Fellow	Sept 2013 – Sept 2015
Senior Research Fellow & Director of the Forensic Voice Comparison Laboratory	Sept 2010 – Sept 2013
Visiting Fellow	Feb 2009 – Sept 2010

Consejo Superior de Investigaciones Científicas / Universidad Internacional Menéndez Pelayo
[Spanish National Research Council / Menéndez Pelayo International University]
Masters of Phonetics and Phonology Programme
Judicial Phonetics Specialization
Madrid, Spain

Invited Lecturer	taught one intensive course per year	April 2010 – May 2015

Australian National University
School of Language Studies
Canberra, Australian Capital Territory, Australia

Research Associate	Sept 2007 – Sept 2010

Boston University
Department of Cognitive & Neural Systems
Speech Lab
Boston, Massachusetts, USA

Social Sciences and Humanities Research Council of Canada Postdoctoral Research Fellow	Aug 2006 – Aug 2007

3 Volunteer Experience

Science & Justice

Associate Editor	focusing on forensic inference and statistics	2025 – present
Guest Editor	Virtual Special Issue: *Measuring and reporting the precision of forensic likelihood ratios* https://www.sciencedirect.com/special-issue/102F0FGVD03	2016 – 2017

British Standards Institution (BSI)
Forensic Science Committee

Chair	2019 – 2025
Member	2018 – present

International Organization for Standardization (ISO)
Forensic Science Committee

Member	2018 – present
Host of Committee Meeting	2023-02 – 2023-06
Project Leader ISO 21043-1:2025 Forensic Sciences – Part 1: Terms and definitions	2023-06 – 2024-12

US National Institute of Standards and Technology (NIST)
Organization of Scientific Area Committees (OSAC) for Forensic Science
Speaker Recognition Subcommittee

Affiliate Member	2015 – 2020

Speech Communication

Guest Editor	Virtual Special Issue: *Multi-laboratory evaluation of forensic voice comparison systems under conditions reflecting those of a real forensic case (forensic_eval_01)* https://www.sciencedirect.com/journal/speech-communication/special-issue/10KTJHC7HNM	2016 – 2019
Member of Editorial Board		2015 – 2022
Subject Editor		2012 – 2014

Acoustical Society of America
Forensic Acoustics Subcommittee

Chair	2010 – 2013

4 Research Funding

Total research funding obtained: USD 8.0M

Research England (part of UK Research and Innovation, UKRI) **GBP 5.4M**
Expanding Excellence in England (E3) Fund
Aston University
2019 – 2023

Aston Institute for Forensic Linguistics

Applicants: Tim Grant (PI), Geoffrey Stewart Morrison, Krzysztof Kredens, Kate Haworth

GBP 500k
2023–2024

Australian Research Council **AUD 544k**
Linkage Project
University of New South Wales
2010 – 2013

Making demonstrably valid and reliable forensic voice comparison a practical everyday reality in Australia **(LP100200142)**

Applicants: Geoffrey Stewart Morrison (PI), Julien Epps, Eliathamby Ambikairajah, Gary Edmond, Joaquín González-Rodríguez, Daniel Ramos, Cuiling Zhang

Partner Organizations: 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 **USD confidential**
Intelligence Advanced Research Projects Activity (IARPA)
Biometrics Exploitation Science and Technology (BEST)
2010 – 2011

Incorporation of forensic analysis techniques as part of an automatic speaker recognition system

Primary contractor: IBM Thomas J. Watson Research Center
Jason W. Pelecanos (PI), Mohamed Omar, Weizhong Zhu, Sibel Yaman, Kyu Han

Subcontractor: University of New South Wales
Geoffrey Stewart Morrison (PI), Cuiling Zhang, Felipe Ochoa, Ewald Enzinger, Tharmarajah Thiruvaran, William Steed, Eugenia San-Segundo-Fernández

5 Awards and Honours

Chartered Society of Forensic Sciences 2019 – present

Fellow

Aston University **GBP 500**

Aston Achievement Award for Outstanding Research Impact 2019

Simons Foundation **GBP 8.5k**

Visiting Fellow at Isaac Newton Institute for Mathematical Sciences 2016

Australian Research Council **AUD 246k**

Postdoctoral Fellowship (Industry) 2010 – 2013

Social Sciences and Humanities Research Council of Canada **CAD 81k**

Postdoctoral Fellowship 2006 – 2008

Social Sciences and Humanities Research Council of Canada **CAD 59k**

Doctoral Fellowship 2003 – 2006

6 Publications

ORCID: 0000-0001-8608-8207

Abstracts for and links to my publications are available at http://geoff-morrison.net/#Selected_Publications

Number of publications:

total:	123
refereed and invited:	100
refereed and invited in forensic science:	80

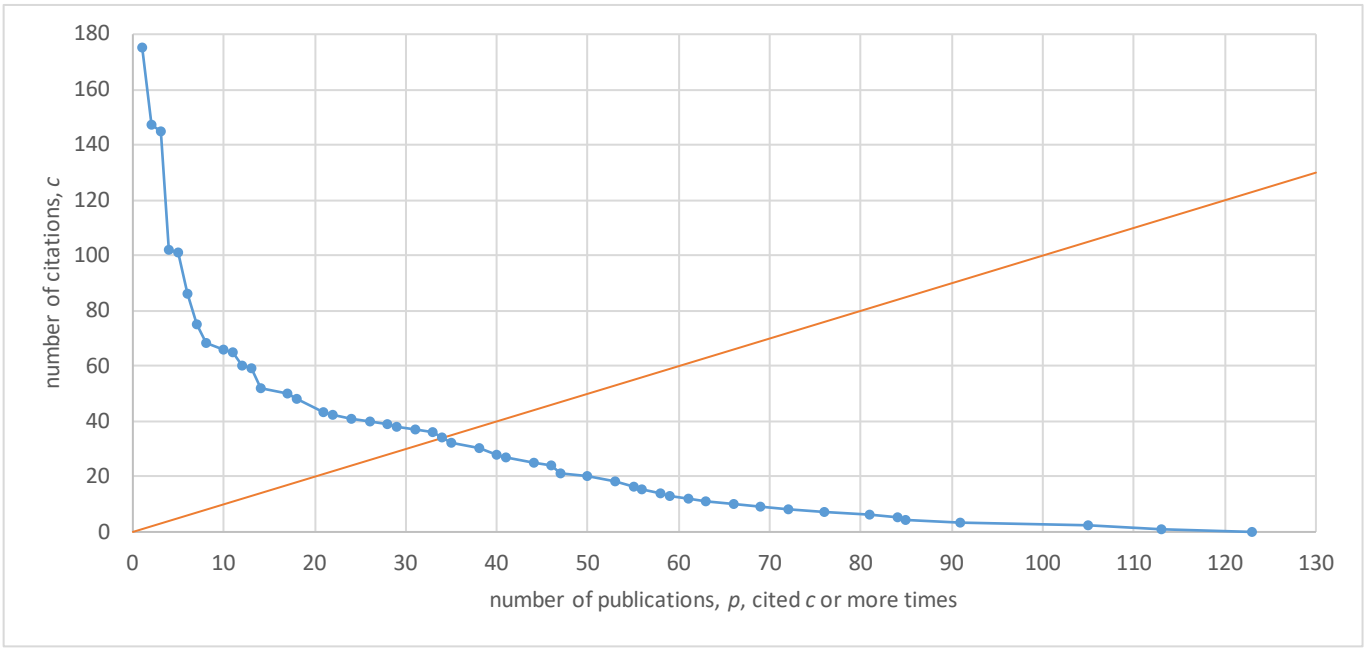
Citations:

	***h* index**		**Total number of citations**	
Web of Science:		(23)	1,291	(1,057)
Scopus:	27		1,934	
Research Gate:	30	(28)	2,571	
Google Scholar:	41		4,651	
Self calculated:		(34)		(2,903)

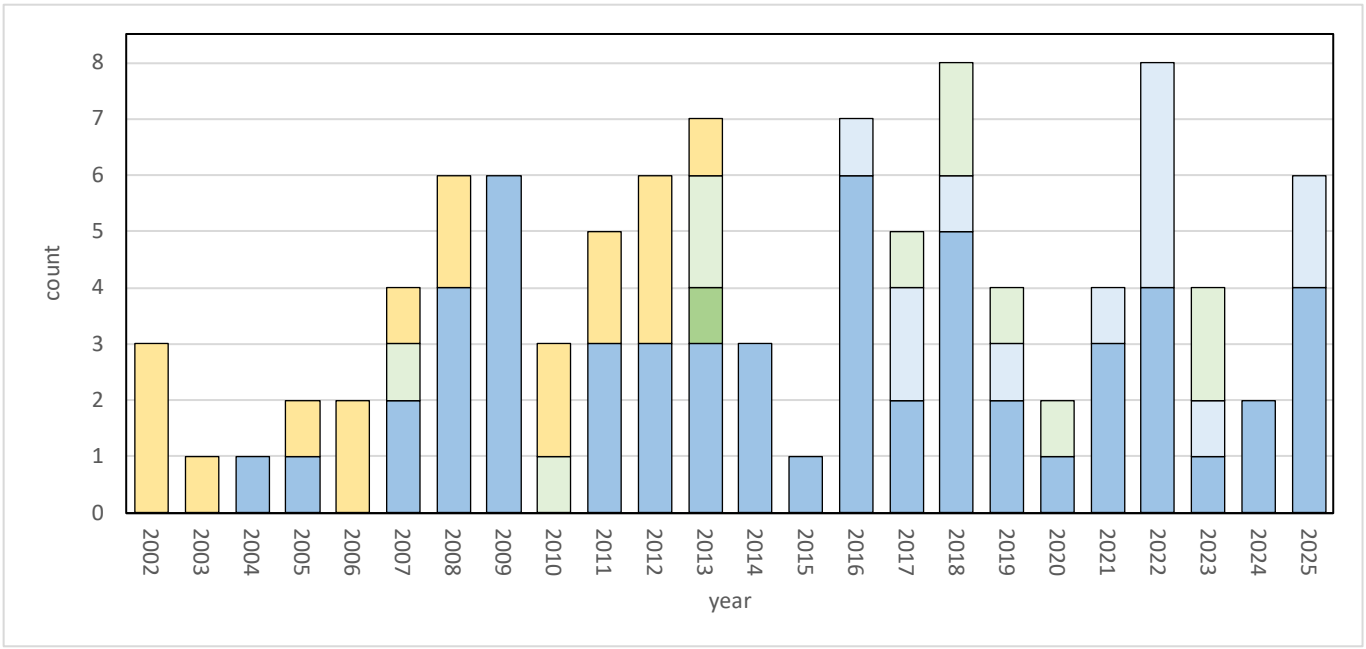
values in parentheses exclude self citations

Self-calculated citation counts exclude my own citations of my work, but do not exclude citations of our work by my coauthors.

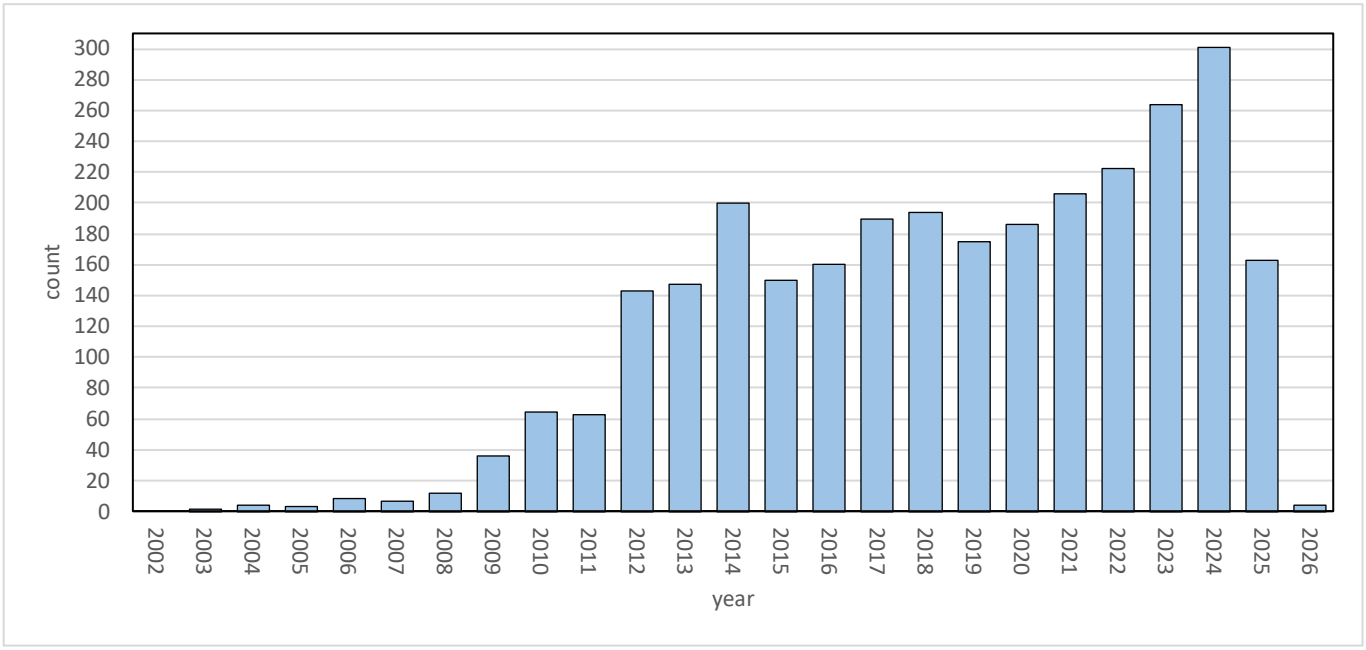
h Chart (based on self-calculated citation counts)



Number of Refereed and Invited Publications by year and type



Number of Citations by year (self-calculated citation counts)



* corresponding author

Publications:

Morrison G.S.,* Bali A.S., Martire K.A., Grady R.H., Thompson W.C. (2025). **What is the best way to present likelihood ratios? A review of past research and recommendations for future research**. *Science & Justice*, 65, 101342. https://doi.org/10.1016/j.scijus.2025.101342

Thompson W.C., Grady R.H., Morrison G.S.* (2025). **Does explaining the meaning of likelihood ratios improve lay understanding?** *Science & Justice*, 65, 101352. https://doi.org/10.1016/j.scijus.2025.101352

Morrison G.S. (2025). **Commentary on: Aggadi N, Zeller K, Busey T. Quantifying the strength of firearms comparisons based on error rate studies. J Forensic Sci. 2024;70(1):84–97. https://doi.org/10.1111/1556-4029.15646; Warren EC, Handley JC, Sheets HD. Cross entropy and log likelihood ratio cost as performance measures for multi-conclusion categorical outcomes scales. J Forensic Sci. 2024;70(2):589–606. https://doi.org/10.1111/1556-4029.15686**. *Journal of Forensic Sciences*. https://doi.org/10.1111/1556-4029.70165

Morrison G.S.,* Biedermann A., Tart M., Meuwly D., Berger C.E.H., Guiness J., Houck M.M., Gibb C., Dawid A.P., Kotsoglou K.N., Kaye D.H., Rose P., Taroni F., Kokshoorn B., Saks M.J., Buckleton J.S., Curran J.M., Taylor D., Zhang C., Vuille J., Champod C., Simonsen B.T., Mattei A., Lucena-Molina J.J., Zabell S., Chin J.M., Gallidabino M., Wevers G., Moreton R., Eldridge H., Martire K.A., Aitken C.G.G., Cole S.A., González-Rodríguez J., Smithuis M., Edvardsen T., Wilson-Wilde L., Zadora G., Gittelson S., Jackson G., Sjerps M., Brard F., Hicks T., Kennedy J., Latten B.G.H., Weber P., Willis S., Ramos D., Koehler J.J., Ribeiro R.O., Crispino F., Basu N., Meakin G.E., Kirkbride K.P., Tully G., Jessen M., Syndercombe Court D. (2025). **A response to EA-4/23 INF:2025 "The Assessment and Accreditation of Opinions and Interpretations using ISO/IEC 17025:2017"**. *Forensic Science International*, 376, 112589. https://doi.org/10.1016/j.forsciint.2025.112589

Preprint at https://forensic-data-science.net/standards/#response_to_EA4_23

Preprint at https://ssrn.com/abstract=5381243

Morrison G.S. (2025). **Taking account of typicality in calculation of likelihood ratios**. *Law, Probability & Risk*, 24, mgaf009. https://doi.org/10.1093/lpr/mgaf009

Morrison G.S.,* Elliott S., Guiness J., Sonden L., Syndercombe Court D. (2025). **A guide to ISO 21043 Forensic Sciences from the perspective of the forensic-data-science paradigm**. *Science & Justice*, 65, 101304. https://doi.org/10.1016/j.scijus.2025.101304

Bali A.S., Basu N., Weber P., Rosas-Aguilar C., Edmond G., Martire K.A., Morrison G.S.* (2024). **Speaker identification in courtroom contexts – Part III: Groups of collaborating listeners compared to forensic voice comparison based on automatic-speaker-recognition technology**. *Forensic Science International*, 360, 112048. https://doi.org/10.1016/j.forsciint.2024.112048

Morrison G.S. (2024). **Bi-Gaussianized calibration of likelihood ratios**. *Law, Probability & Risk*, 23, mgae004. https://doi.org/10.1093/lpr/mgae004

Basu N., Weber P., Bali A.S., Rosas-Aguilar C., Edmond G., Martire K.A., Morrison G.S.* (2023). **Speaker identification in courtroom contexts – Part II: Investigation of bias in individual listeners' responses**. *Forensic Science International*, 349, 111768. https://doi.org/10.1016/j.forsciint.2023.111768

Morrison G.S. (2023). **A single test pair does not a method validation make: A response to Kirchhübel et al. (2023)** (Letter to the Editor). *Science & Justice*, 63, 327–329. https://doi.org/10.1016/j.scijus.2023.03.001

Morrison G.S.,* Zhang C. (2023). **Forensic voice comparison: Overview**. In Houck M., Wilson L., Eldridge H., Lewis S., Lothridge K., Reedy P. (Eds.), *Encyclopedia of Forensic Sciences* (3rd Ed.), vol. 2, pp. 737–750. Elsevier.

https://doi.org/10.1016/B978-0-12-823677-2.00130-6

Preprint at https://forensic-voice-comparison.net/encyclopedia/

Morrison G.S.,* Weber P., Enzinger E., Labrador B., Lozano-Díez A., Ramos D., González-Rodríguez J. (2023). **Forensic voice comparison: Human-supervised-automatic approach**. In Houck M., Wilson L., Eldridge H., Lewis S., Lothridge K., Reedy P. (Eds.), *Encyclopedia of Forensic Sciences* (3rd Ed.), vol. 2, pp. 720–736. Elsevier. https://doi.org/10.1016/B978-0-12-823677-2.00182-3

Preprint at https://forensic-voice-comparison.net/encyclopedia/

Morrison G.S. (2022). **A method to convert traditional fingerprint ACE / ACE-V outputs ("identification", "inconclusive", "exclusion") to Bayes factors**. arXiv:2409.00451. https://doi.org/10.48550/arXiv.2409.00451

Morrison G.S. (2022). **A response to Busey & Klutzke (2022): Regarding subjective assignment of likelihood ratios** (Letter to the Editor). *Science & Justice*, 63, 61–62. https://doi.org/10.1016/j.scijus.2022.11.003

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Morrison G.S. (2022). **A plague on both your houses: The debate about how to deal with "inconclusive" conclusions when calculating error rates** (Letter to the Editor). *Law, Probability and Risk*. https://doi.org/10.1093/lpr/mgac015

Preprint at https://geoff-morrison.net/#inconclusives_2022

Basu N., Bali A.S., Weber P., Rosas-Aguilar C., Edmond G., Martire K.A., Morrison G.S.* (2022). **Speaker identification in courtroom contexts – Part I: Individual listeners compared to forensic voice comparison based on automatic-speaker-recognition technology**. *Forensic Science International*, 341, 111499. https://doi.org/10.1016/j.forsciint.2022.111499

Morrison G.S.,* Basu N., Enzinger E., Weber P. (2022). **The opacity myth: A response to Swofford & Champod (2022)**. (Letter to the Editor). *Forensic Science International: Synergy*, 5, 100275. https://doi.org/10.1016/j.fsisyn.2022.100275

Basu N., Bolton-King R.S., Morrison G.S.* (2022). **Forensic comparison of fired cartridge cases: Feature-extraction methods for feature-based calculation of likelihood ratios**. *Forensic Science International: Synergy*, 5, 100272. https://doi.org/10.1016/j.fsisyn.2022.100272

Morrison G.S. (2022). **Advancing a paradigm shift in evaluation of forensic evidence: The rise of forensic data science**. *Forensic Science International: Synergy*, 5, 100270. https://doi.org/10.1016/j.fsisyn.2022.100270

Morrison G.S.,* Ramos D., Ypma R.J.F., Basu N., de Bie K., Enzinger E., Geradts Z., Meuwly D., van der Vloed D., Vergeer P., Weber P. (2022). **A strawman with machine learning for a brain: A response to Biedermann (2022) The strange persistence of (source) "identification" claims in forensic literature** (Letter to the Editor). *Forensic Science International: Synergy*, 4, 100223. https://doi.org/10.1016/j.fsisyn.2022.100230

Weber P., Enzinger E., Labrador B., Lozano-Díez A., Ramos D., González-Rodríguez J., Morrison G.S.* (2022). **Validation of the alpha version of the E^3 Forensic Speech Science System (E^{3}FS^3) core software tools**. *Forensic Science International: Synergy*, 4, 100223. https://doi.org/10.1016/j.fsisyn.2022.100223

Morrison G.S.,* Weber P., Basu N., Puch-Solis R., Randolph-Quinney P.S. (2021). **Calculation of likelihood ratios for inference of biological sex from human skeletal remains**. *Forensic Science International: Synergy*, 3, 100202. https://doi.org/10.1016/j.fsisyn.2021.100202

Morrison G.S. (2021). **In the context of forensic casework, are there meaningful metrics of the degree of calibration?** *Forensic Science International: Synergy*, 3, 100157. https://doi.org/10.1016/j.fsisyn.2021.100157

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*, 61, 229–309. https://doi.org/10.1016/j.scijus.2021.02.002

Morrison G.S.,* Neumann C., Geoghegan P.H., Edmond G., Grant T., Ostrum R.B., Roberts P., Saks M., Syndercombe Court D., Thompson W.C., Zabell S. (2021). **Reply to Response to Vacuous standards – subversion of the OSAC standards-development process**. *Forensic Science International: Synergy*, 3, 100149. https://doi.org/10.1016/j.fsisyn.2021.100149

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

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/

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.,* 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). **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.,* 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/10.4324/9780429056253-22

Preprint at https://research.aston.ac.uk/en/publications/introduction-to-forensic-voice-comparison

Zhang C.,* Morrison G.S., Enzinger E. (2018). **法庭说话人识别新范式实证研究**, *中国人民公安大学学报(自然科学版)* [Forensic voice comparison using the new paradigm for a real case. Journal of the People's Public Security University of China (Science and Technology)], 97(3), 30–37. http://goan.chinajournal.net.cn/WKD/WebPublication/paperDigest.aspx?paperID=cc4c1b0f-e32a-4c98-a26f-afc7eed44a7a

Morrison G.S. (2018). **Admissibility of forensic voice comparison testimony in England and Wales**. *Criminal Law Review*, 2018(1), 20–33.

Preprint at http://geoff-morrison.net/#Admissibility_EW_2018

Morrison G.S.,* Poh N. (2018). **Avoiding overstating the strength of forensic evidence: Shrunk likelihood ratios / Bayes factors**. *Science & Justice*, 58, 200–218. http://dx.doi.org/10.1016/j.scijus.2017.12.005

Morrison G.S. (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. (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.,* 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

Berghs S.,* Morrison G.S., Goemans-Dorny C. (2018). **Electronic evidence: Challenges and opportunities for law enforcement**. In Biasiotti M., Mifsud Bonnici J., Cannataci J., Turchi, F. (Eds.), *Handling and Exchanging Electronic Evidence Across Europe* (pp. 75–123). Cham, Switzerland: Springer. https://doi.org/10.1007/978-3-319-74872-6_6

Morrison G.S.,* Enzinger E., Zhang C. (2018). **Forensic speech science**. In Freckelton I., Selby H., (Eds.), *Expert Evidence* (Ch. 99). Sydney, Australia: Thomson Reuters.

Preprint at http://expert-evidence.forensic-voice-comparison.net/

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

Zhang C.,* Morrison G.S. (2017). **Forensic voice comparison**. In Sybesma R., Behr W., Gu Y., Handel Z., Huang C.-T. J., Myers J. (Eds.), *Encyclopedia of Chinese Language and Linguistics* (pp. 256–260). Leiden: Brill. http://dx.doi.org/10.1163/2210-7363_ecll_COM_000205

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

Preprint at https://ssrn.com/abstract=2883767

Preprint at https://www.newton.ac.uk/files/preprints/ni16053.pdf

This article was published in a prestigious US law journal (the norm for US law journals is review by the editorial board).

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. (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

Preprint at http://forensic-evaluation.net/PCAST2016/

The PCAST report was published 2016-09-20. This letter to the editor was submitted 2016-10-05, and published online 2016-10-26.

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, 85, 119–126. 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 [see also: http://geoff-morrison.net/#replies_to_Hicks_et_al_2015]

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. (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. (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

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7 Presentations

Morrison G.S., (2025, December). **A New International Standard for Forensic Science (ISO 21043), and Education in Forensic Inference and Statistics**. *VII Congresso da Associação Portuguesa de Ciências Forenses*, Porto, Portugal.

Invited presentation

Morrison G.S., (2025, May). **Introduction to the likelihood-ratio framework for evaluation of forensic evidence**. *European Academy of Forensic Science Conference*, Dublin, Ireland.

Workshop

Morrison G.S., (2025, May). **Calibration and validation of likelihood-ratio systems**. *European Academy of Forensic Science Conference*, Dublin, Ireland.

Workshop

Morrison G.S., (2023, August). **Advancing a paradigm shift in evaluation of forensic evidence: The rise of forensic data science**. *InterForensics*, Brasília, Brazil.

Keynote presentation

The first three items on the conference programme are: 1. opening ceremony; 2. address by minister for justice and public

security; 3. my keynote presentation.

Morrison G.S., (2022, June). **Advancing a paradigm shift in evaluation of forensic evidence: The rise of forensic data science**. *European Academy of Forensic Science Conference*, Stockholm, Sweden.

Keynote presentation

Morrison G.S., (2022, June). **Calibration and validation of likelihood-ratio systems**. *European Academy of Forensic Science Conference*, Stockholm, Sweden.

Workshop

Morrison G.S., (2022, April). **Advancing a paradigm shift in evaluation of forensic evidence**. Netherlands Forensic Institute, The Hague, The Netherlands.

Invited presentation

Morrison G.S., (2022, April). **Advancing a paradigm shift in evaluation of forensic evidence**. *Ciencia forense en el siglo XXI: la relevancia del paradigma científico*, Universidad Nacional de Educación a Distancia, Madrid, Spain. [Forensic science in the 21st century: The relevance of the scientific paradigm.]

Distinguished Lecturer presentation

Morrison G.S., (2021, December). **Consensus on validation of forensic-comparison systems in the context of casework**. *2nd AFORE Webinar on The Validation of Analytical Methods in Forensic Science*, European Network of Forensic Science Institutes (ENFSI), online.

http://calibration-and-validation.forensic-data-science.net/#AFORE_2021

Invited presentation

Morrison G.S., (2021, June). **Calibration in forensic science**. *Symposium on Calibration in Forensic Science*, Forensic Data Science Laboratory, Aston Institute for Forensic Linguistics, Birmingham, UK. Online symposium.

http://calibration-and-validation.forensic-data-science.net/#symposium_on_calibration_2021

direct link to start of presentation https://youtu.be/Z9EpvowD7Zc?t=354

One of four presentations

Liscio E. (2021, April). **Forensic Data Science: Interview with Dr Geoffrey Stewart Morrison**. *Forensics Talks*, Episode 28. 3D Forensics.

https://www.ai2-3d.com/forensics-talks Direct link https://www.youtube.com/watch?v=ysGEfPxTY-Q

Morrison G.S., (2019, July). **Introduction to likelihood ratios**. *Meeting of the Organization of Scientific Area Committees for Forensic Science (OSAC)*, Orlando, FL, USA.

Plenary presentation

Morrison G.S. (2018, May). **Introduction to the likelihood ratio framework for the evaluation of forensic evidence**. *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.

Invited presentation

Morrison G.S. (2017, June). **What should a forensic scientist's likelihood ratio be?** *Colloquium on Quantifying the Weight of Forensic Evidence*, National Institute for Standards and Technology (NIST), Gaithersburg, MD, USA.

Invited presentation

8 Training

Since the late 2000's I have delivered continuing-professional-development (CPD) training in forensic inference and statistics to forensic practitioners and to lawyers. I have delivered workshops at multiple conferences, including at the National Judicial College of Australia's Expert Evidence Conference, the Mexican Forensic Science Network's Conference, the Cook County (Chicago) Public Defender Office's Forensic Science Conference, and the European Academy of Forensic Science Conference. Organizations where I have delivered training include, Australian Federal Police, Queensland Police, Victoria Police, Netherlands Forensic Institute, French Gendarmerie, Swedish National Forensic Centre, the US Innocence Project (at their New York headquarters), the US Organization of Scientific Area Committees for Forensic Science (OSAC, as a plenary presentation), and the Estonian Forensic Science Institute. I have also given workshops that were attended by members of the Office of the Forensic Science Regulator for England & Wales, the UK Forensic Information Databases Service, and the UK Defence Science and Technology Laboratory (DSTL).

My workshops are interactive. I begin with intuitive examples, formalize the concepts from those examples, then ask the participants to apply the concepts in less-intuitive contexts.

I currently have two standard one-day workshops:

- Introduction to the likelihood ratio framework for evaluation of forensic evidence
- Concepts of likelihood-ratio calculation + Calibration and validation of likelihood-ratio systems

Information about these workshops is provided at https://forensic-data-science.net/#training

Feedback I have received from workshop participants includes:

- "I obtained great value from this workshop which was: Very well arranged. Structure was excellent. Pacing was good. Learning feedback opportunities were numerous."
- "Interactive, small group, whole day workshop, plenty of time for questions, speaker was knowledgeable and funny. Excellent all round."
- "It was nice to see how the likelihood ratio applied to real forensic evidence contexts, and working through examples helped me to understand and practice the concepts. It was helpful to work through simple and fun examples to ease into the more complex forensic problems."
- "I liked the structure of the workshop – how we started with basic concepts and applied those to scientific data. The presentation was clear and very useful. I also liked the exercises after the presentation, which helped to put the theory into practice and test our knowledge. Highly enjoyable."
- Court Appointed Forensic Advisor:

  "I don't have a background in statistics, but you presented the material in a way that was really easy for me to understand. I can't thank you enough."
- Head of the Forensic Science Division of a large Public Defender Office:

  "I have attended several presentations on the likelihood-ratio framework over the last few years. Yours was the first that actually made it understandable."
- Deputy Director of a National Forensic Laboratory:

  "The workshop was very well prepared and conducted. Although I have only a basic knowledge of likelihood ratios, you explained everything very clearly. You are most definitely one of the few people who have a great talent to be a very-very good teacher."

At Aston University, I teach a Master's course on **Concepts of Forensic Inference and Statistics**. In addition to being delivered to regular students, since January 2025 it is also delivered as a stand-alone CPD course. The CPD version of the course is

delivered online and is spread over 22 weeks in six months, requiring about one-day per week of study. It is approved by the Chartered Society of Forensic Sciences, and has been taken by forensic practitioners from Australia, Brazil, China, Denmark, Luxembourg, United Kingdom.

The aim of the course is for students to gain a solid understanding of the principles of forensic inference and statistics. The focus of the course is on understanding of concepts rather than practical implementation skills.

Particular objectives are that students will:

- understand the logic of the likelihood ratio framework for the evaluation of forensic evidence, including the impact of choice of relevant population
- understand how to calculate meaningful likelihood ratios on the basis of relevant data, quantitative measurements, and statistical models
- understand how to empirically calibrate a forensic-evaluation system
- understand how to empirically assess the validity of a forensic-evaluation system
- know what cognitive bias is and be familiar with strategies for reducing its potential impact in forensic practice
- be familiar with the requirements and recommendations of standards and guidelines related to evaluation of forensic evidence
- be familiar with legal admissibility from a scientific perspective, particularly admissibility in US Federal Court and admissibility in England & Wales
- be familiar with historical and contemporary analytical approaches and interpretive frameworks used in forensic voice comparison – these are used as concrete examples to illustrate concepts that are also generalizable to other branches of forensic science

I teach using a flipped-classroom active-learning approach.

Feedback I have received from students on this course:

- “This course is unique in the concepts it teaches. I love that Prof Morrison has realised the need of this type of statistical understanding across the majority of forensic disciplines and is forging ahead to promote the paradigm shift. This course has had a positive influence on me as a forensic practitioner. All forensic practitioners should undertake a course like this one.”
- “This module is LEAGUES (and if I could underline that, I would) ahead of others in terms of the teaching format and feedback received. Other modules could really benefit from incorporating elements of the instructor’s teaching style.

  I have absolutely hated anything mathy or science my entire life, thinking I’m simply too stupid for it, but this module has introduced things so steadily and sequentially (& with instant feedback and consolidation from the didactic quizzes), that I not only feel capable but I’m actually kind of enjoying it?!

  The organisation of materials is great, the repetition is great, the class discussion format is great, the instructor is patient and thorough. I cannot express strongly enough that this is the best-taught class I have ever taken.”

Further information about the CPD course is provided at https://www.aston.ac.uk/study/courses/concepts-forensic-inference-and-statistics-standalone-module/.

9 Forensic Casework

Total number of forensic cases in which I have been engaged: 38

Jurisdictions:

- Australia (NSW, QLD, SA, VIC, WA)
- Canada (ON)
- England & Wales
- Denmark
- Northern Ireland
- Sweden
- United States (Federal, CO, IL, MD, MN)

I have been engaged by both prosecution and defence in criminal cases, and by both plaintiffs and respondents in civil cases.

Cook County Public Defender Office 2025
Chicago, Illinois, USA

Defence

- Case ongoing.

Doogue + George Lawyers 2023
Melbourne, Victoria, Australia

Defence

- Forensic voice comparison - written report on full evaluation submitted

Cook County Public Defender Office 2023
Chicago, Illinois, USA

Defence

People v Jarvis Mathis, 22cr00914

- Provided a report that addresses, from a scientific perspective, the appropriateness of the ShotSpotter Decision-Making Guideline as a protocol or procedure for evaluating whether acoustic events detected and recorded by ShotSpotter sensors are gunfire or not.

Dr Krzysztof Kredens, Forensic Linguistic Consultancy 2023
Birmingham, UK

Prosecution

- Provided statistical analysis in relation to authorship evaluation.

Duncan Lewis Solicitors 2022
London, England & Wales

Defence

- Advised solicitor and barrister on speaker recognition by laypersons.

Deepak B. Paradkar, Criminal Lawyer 2022
Brampton, Ontario, Canada

Defence

- Non-testifying expert assisting lawyer to prepare to cross-examine a forensic practitioner who had submitted a forensic voice comparison report

Maryland Office of the Public Defender 2022
Baltimore, Maryland, USA

Defence

- Provided a report with respect to factors affecting the accuracy of earwitness speaker recognition

ng6advokater 2022
Copenhagen, Denmark

Appellant

- Provided a written critique of a forensic voice comparison report prepared by another forensic practitioner
- Oral testimony in appeal-court hearing (jointly instructed by Homann Advokater)

Australian Securities and Investments Commission, Office of Enforcement 2020 – 2022
Sydney, New South Wales, Australia

Prosecution

- Forensic voice comparison - written report on full evaluation submitted
- Forensic voice comparison - evaluation of additional recordings

David W. Dyson, Barrister 2021 – 2022
Huddersfield, England & Wales

for Plaintiff

- Provided a report on the feasibility of conducting a disputed-utterance evaluation

Homann Advokater 2021–2022
Copenhagen, Denmark

Defence

- Provided a written critique of a forensic voice comparison report prepared by another forensic practitioner
- Oral testimony in trial-court hearing
- Oral testimony in appeal-court hearing (jointly instructed by ng6advokater)

McNamee McDonnell Solicitors 2019
Newry, Northern Ireland

Defence

- Provided a written critique of a forensic voice comparison report prepared by another forensic practitioner

Duffy Solicitors Ltd 2019
Newry, Northern Ireland

Defence

- Provided a written critique of a forensic voice comparison report prepared by another forensic practitioner

Advokaterna Hurtig & Partners AB 2018
Gothenburg, Sweden

Defence

- 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) 2017 – 2018
Toronto, Ontario, Canada

Prosecution

R v Dunstan [2018] ONSC 4153

- Forensic voice comparison - written report on full evaluation submitted
- Provided a written critique of a forensic voice comparison report prepared by other forensic practitioners
- Oral testimony in court on the forensic voice comparison evaluation
- Oral testimony in court on speaker identification by laypeople

KRW LAW-LLP 2017 – 2018
Belfast, Northern Ireland

Defence

- Provided a report on the feasibility of conducting a forensic voice comparison given the circumstances of a case
- Submitted by defence in relation to a discovery hearing

Jeffreys Lawyers 2017
Sydney, New South Wales, Australia

Defence

- Provided a written critique of a forensic voice comparison report prepared by another forensic practitioner

Universal Law 2017
Mullumbimby, New South Wales, Australia

Defence

- Provided a written critique of a forensic voice comparison report prepared by another forensic practitioner

Ridley, McGreevy & Winocur 2017
Denver, Colorado, USA

Defence

- Provided transcript of faint speech on audio recording

Tobin King Lateef Lawyers 2017
Brisbane, Queensland, Australia

for Plaintiff

HWL Ebsworth Lawyers
Brisbane, Queensland, Australia

for Respondent

- Single jointly instructed expert in a civil case

Reprieve US 2015
New York, New York, USA

for Plaintiff

Abu Wa'el Dhiab v Barack H Obama et al., Civ. No. 05-1457 (GK)

suit by former Guantánamo detainee against the US Government

- Informational written report on speaker identification submitted to court

Rothman, Schneider, Soloway & Stern 2014 – 2015
New York, New York, USA

Defence

United States v Ali Ahmed, Madhi Hashi, & Muhamed Yusuf [EDNY 12-CR-661(SLT)]

alleged terrorism case

- Provided a written critique of a forensic voice comparison report prepared by another forensic practitioner
- 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

The case was settled by plea deal after the *Daubert* hearing but before the judge issued an admissibility ruling.

4th District Public Defender's Office 2014 – 2015
Minneapolis, Minnesota, USA

Defence

Minnesota v David Johnson Jr

- Provided a written report on speaker identification by laypeople

Victoria Police, Crime Investigation Unit 2012 – 2013
Boroondara, Victoria, Australia

Prosecution

- Forensic voice comparison - written report on full evaluation submitted

Emery Partners Solicitors 2012 – 2013
Newcastle, New South Wales, Australia

Defence

- Forensic voice comparison - written report on full evaluation submitted

Aquila Lawyers 2012
Sydney, New South Wales, Australia

Defence

R v Christina My Phung Ly

- Provided a written critique of a forensic voice comparison report prepared by another forensic practitioner
- Oral testimony during *voir dire* and before jury

Fisher Dore Lawyers 2012
Brisbane, Queensland, Australia

for Respondent

Peter Foster ats Australian Competition and Consumer Commission

- Provided a written critique of a forensic voice comparison report prepared by another forensic practitioner
- Oral testimony in court

Herbert Geer Lawyers 2012
Melbourne, Victoria, Australia

Defence

- Provided a report on the feasibility of conducting a forensic voice comparison

South Australian Office of the Director of Public Prosecutions 2012
Adelaide, South Australia, Australia

Prosecution

- Provided a written critique of a forensic voice comparison report prepared by another forensic practitioner

South Australia Police, Criminal Investigations Branch 2012
Port Augusta, South Australia, Australia

Prosecution

- Provided a report on the feasibility of conducting a forensic voice comparison

Henry Sklarz Lawyers 2011
Perth, Western Australia, Australia

Defence

State of Western Australia v Thi Dieu Linh Lai [WA Dist Ct, No 654 of 2011]

- Oral testimony in court on speaker identification by laypeople

Garde-Wilson Lawyers 2009
Melbourne, Victoria, Australia

Defence

- Provided a report on the feasibility of conducting a forensic voice comparison

D G Price & Co, Barristers & Solicitors 2009
Perth, Western Australia, Australia

Defence

State of Western Australia v Cameron James Mansell [WA Dist Ct, No 665 of 2008]

- Provided a written report on speaker identification by laypeople
- Oral testimony in court on speaker identification by laypeople

Victoria Police, Purana Taskforce 2009
Melbourne, Victoria, Australia

Prosecution

- Provided a report on the feasibility of conducting a forensic voice comparison

New South Wales Police, South East Asian Crime Squad 2009
Sydney, New South Wales, Australia

Prosecution

- Provided a report on the feasibility of conducting a forensic voice comparison

Jim Young, Barrister-at-Law 2009
Sydney, New South Wales, Australia

Defence

- Provided a written report on speaker identification by laypeople

Ford Criminal Lawyers 2008
Sydney, New South Wales, Australia

Defence

- Provided a report on the feasibility of conducting a forensic voice comparison

South Australia Police, Major Crash Investigation Unit 2008
Adelaide, South Australia, Australia

Prosecution

- Provided a report on the feasibility of conducting a forensic voice comparison