

Robert James Froud

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EDUCATION

<i>PhD, Health Sciences</i>	Barts and The London School of Medicine and Dentistry Queen Mary (QM) University of London (UoL)	2010
<i>MSc, Medical Statistics</i>	London School of Hygiene and Tropical Medicine, UoL	2011
<i>Grad. Cert., Astronomy</i>	James Cook University	<i>Distinction</i> 2005
<i>BSc (Hons), Osteopathy</i>	European School of Osteopathy (ESO) University of Wales	2003
<i>DO, Osteopathy</i>	European School of Osteopathy (ESO)	2003

APPOINTMENTS

Senior Research Fellow	Warwick Medical School UoW	2013 to present
CEO	Clinvivo Ltd	2012 to present
Professor of Health Sciences	Norwegian University College of Health Sciences Campus Kristiania	2011 to present
Senior Research Fellow	Barts and the London School of Medicine and Dentistry QMUoL	2012 to 2013

Honorary Research Fellow	Warwick Medical School University of Warwick	2011 to 2013
Research Fellow (0.5FTE) clinical trials	Centre for Primary Care and Public Health QMUoL	2009 to 2012
Principal Osteopath	Bodycare Osteopathy Kent (private practice)	2003 to 2010

MEMBERSHIPS, FELLOWSHIPS, AND COMMITTEES

Executive Member of the Society of Back Pain Research (SBPR)	Since 2012
General Osteopathic Council Registered osteopath (non-practising since 2011)	Since 2003

CURRENT OR RECENTLY HELD GRANTS

Froud R (PI), Duggan S, Willis A, Underwood M.	<i>Measuring clinical outcomes using mobile computing technologies</i> Warwick Impact Fund (HEIF5) Start: March 2013, End: March 2014	£30,000.00
Froud R (PI), Buchbinder R, Sandra Eldridge, Evans D, Christian Fossum, Tor Harald Garberg, and Martin Underwood.	Systematic review of Populations, Reporting, and Outcomes, with Bias Estimation (PROBE) in back pain trials: 1980-2011 Campus Kristiania University of Warwick Monash University Start: Feb 2012, End: Feb 2014	£17,500.00
Froud R (PI), Eldridge S, Pincus T, Patel S, Seale C, Underwood M.	Exploring back pain Patients' perceptions of Important Change (EPIC) Arthritis Research UK, REF: 19480 Start: May 2011, End: April 2014	£122,773.00

PUBLICATIONS [\[IF \(time of publication\)\]](#) [\[Reads\]](#) [\[Altmetric\]](#) [\[Cites\]](#)

- Petrou S, Rivero-Arias O, Dakin H, Longworth L, Oppe M, **Froud R**, Gray A. Preferred reporting items for studies mapping onto preference-based outcome measures: The MAPS statement. *PharmacoEconomics* 2015, DOI 10.1007/s40273-015-0319-2. [\[3.338\]](#) [\[ND\]](#) [\[ND\]](#) [\[7\]](#)
- Petrou S, Rivero-Arias O, Dakin H, Longworth L, Oppe M, **Froud R**, Gray A. The MAPS reporting statement for studies mapping onto generic preference-based outcome measures: Explanation and elaboration. *PharmacoEconomics* 2015, DOI 10.1007/s40273-015-0312-9. [\[3.338\]](#) [\[ND\]](#) [\[ND\]](#) [\[ND\]](#)
- Petrou S, Rivero-Arias O, Dakin H, Longworth L, Oppe M, **Froud R**, Gray A. Preferred reporting items for studies mapping onto preference-based outcome measures: The MAPS statement. *Qual Life Res* 2015, DOI 10.1007/s11136-015-1082-8. [\[2.486\]](#) [\[ND\]](#) [\[ND\]](#) [\[ND\]](#)
- Petrou S, Rivero-Arias O, Dakin H, Longworth L, Oppe M, **Froud R**, Gray A. Preferred reporting items for studies mapping onto preference-based outcome measures: The MAPS statement. *Medical Decision Making* 2015, DOI 10.1007/0272989X15598332. [\[3.240\]](#) [\[ND\]](#) [\[ND\]](#) [\[ND\]](#)
- Petrou S, Rivero-Arias O, Dakin H, Longworth L, Oppe M, **Froud R**, Gray A. Preferred reporting items for studies mapping onto preference-based outcome measures: The MAPS statement. *J Med Econ* 2015: 1-7. [\[ND\]](#) [\[ND\]](#) [\[ND\]](#) [\[ND\]](#)

6. Petrou S, Rivero-Arias O, Dakin H, Longworth L, Oppe M, **Froud R**, Gray A. Preferred reporting items for studies mapping onto preference-based outcome measures: The MAPS statement. *Int J Tech Ass in Health Care* 2015. 31:4 (1-6). [1.556] [ND] [ND] [ND]
7. Petrou S, Rivero-Arias O, Dakin H, Longworth L, Oppe M, **Froud R**, Gray A. Preferred reporting items for studies mapping onto preference-based outcome measures: The MAPS statement. *Health and Quality of Life Outcomes* 2015. 13:106. [2.12] [ND] [ND] [ND]
8. Petrou S, Rivero-Arias O, Dakin H, Longworth L, Oppe M, **Froud R**, Gray A. Preferred reporting items for studies mapping onto preference-based outcome measures: The MAPS statement. *App Health Econ Health Policy* 2015. DOI 10.1007/s40258-015-0191-4. [ND] [ND] [ND] [ND]
9. **Froud R**, Ellard D, Patel S, Eldridge S, Underwood M. Primary outcome measure use in back pain trials may need radical reassessment. *BMC Musculoskeletal Disorders* 2015, BMC Musculoskeletal Disorders 2015, 16:88 [1.880] [1250] [8] [ND]
10. **Froud R**, and Abel, G. Using ROC curves to choose minimally important change thresholds when sensitivity and specificity are valued equally: the forgotten lesson of Pythagoras. Theoretical considerations and an example application of change in health status. *PLoS One* 2014 DOI: 10.1371/journal.pone.0114468 [3.534] [4,250] [106] [1]
11. **Froud R**. Back pain: the spiralling effects of a problem no one can see. *The Conversation* 2014, 22 May. Available from <https://theconversation.com/back-pain-the-spiralling-effects-of-a-problem-no-one-can-see-25564> [N/A] [6,000] [N/A] [N/A]
12. **Froud R**, Patterson S, Eldridge S, Seale C, Pincus T, Rajendran D, Fossum C, Underwood M. A systematic review and meta-synthesis of the impact of low back pain. *BMC Musculoskeletal Disorders* 2014, 15:50 doi:10.1186/1471-2474-15-50 [1.880] [7,400] [62] [20]
13. Henschke N, van Enst A, **Froud R**, Ostelo R. Responder analyses in randomised controlled trials for chronic low-back pain: an overview of currently used methods. *European Spine Journal* 2014 Apr;23(4):772-8. doi: 10.1007/s00586-013-3155-0 [2.540] [ND] [3] [6]
14. **Froud, R**. Tadman J. Meet the Expert. *Arthritis Today*. Winter 2014 [N/A] [ND] [N/A] [N/A]
15. Hooper R, **Froud R**, Bremner S, Perera, R Eldridge S. Cascade diagrams: a new graphical method for depicting complex interventions in randomised trials. *BMJ* 2013, 347:f6681. doi 10.1136/bmj.f6681 [17.215] [5,000] [3] [3]
16. S Vogel, T Pincus, N Marlin, T Mars, **R Froud**, S Eldridge, M Underwood. Adverse events and treatment responses within osteopathy. 2013 Bone Joint Journal Orthopaedic Proceedings Supplement 95(Supp 17). [2.735] [ND] [0] [0]
17. D Rajendran, P Bright, **R Froud**. Frequency and pattern of commonly occurring adverse events following osteopathic treatment in an osteopathic teaching clinic. 2013 Bone Joint Journal Orthopaedic Proceedings Supplement 95(Supp 17). [2.735] [ND] [0] [0]
18. **Froud R**, Patterson S, Eldridge S, Seale C, Pincus T, Rajendran D, Fossum C, Underwood M. What aspects of improvement in low back pain do patients consider important? A systematic review and meta-synthesis of qualitative literature. 2013 Bone Joint Journal Orthopaedic Proceedings Supplement 95(Supp 4). [2.735] [ND] [0] [0]
19. Diaz-Ordaz K, **Froud R**, Slowther AM, Eldridge S. A systematic review of cluster randomised trials in residential facilities for older people suggests how to improve quality. *BMC Medical Research Methodology*. 2013 13(1):127 [2.210] [1,850] [5] [4]
20. Patel S, Friede T, **Froud R**, Evans DW, Underwood M. Systematic review of randomised controlled trials of clinical prediction rules for physical therapy in low back pain. 2013 *Spine* 38(9):762-769 [3.000] [ND] [18] [16]
21. **Froud R**, Underwood M, Eldridge S. Improving the reporting and interpretation of clinical trial outcomes. *Br J Gen Pract*. 2012 Oct;62(603):729-31 [2.180] [ND] [0] [1]
22. **Froud R**, Underwood M, Carnes D, Eldridge S, Clinicians' perceptions of reporting methods for back pain trials: a qualitative study. *British Journal of General Practice*. 2012 62, (596) e151-e159. [2.180] [ND] [1] [3]

23. **Froud R**, Eldridge S, Diaz Ordaz K, Marinho V, Donner, A. Quality of cluster randomised controlled trials in oral health: a systematic review of reports published between 2005 and 2009. *Community Dentistry and Oral Epidemiology*. 2012, 40(S1) 3-14. [[1.797](#)] [[ND](#)] [[2](#)] [[8](#)]
24. **Froud R**, Eldridge S, Kovacs F, Breen A, Bolton J, Dunn K, Fritz J, Keller A, Kent P, Lauridsen H, Ostelo R, Pincus T, van Tulder M, Vogel S, Underwood M. Reporting Outcomes of back pain trials: A modified Delphi study. *European Journal of Pain*. 2011; 15(10):1068-74 [[3.939](#)] [[ND](#)] [[ND](#)] [[18](#)]
25. Pincus T, Miles C, **Froud R**, Underwood M, Carnes D, Taylor SJ. Methodological criteria for the assessment of moderators in systematic reviews of Randomised Controlled Trials: a consensus study. *BMC Med Res Methodol*. 2011 Jan 31;11(1):14. [[2.670](#)] [[4,600](#)] [[1](#)] [[23](#)]
26. Croft P, **Froud R**, Lewis A. Dropouts and subgroups – statistics can help but not cure. *Pain*, 2010 Dec;151(3):563-4 [[5.355](#)] [[ND](#)] [[ND](#)] [[3](#)]
27. **R Froud**, M Underwood, S Eldridge. Face validity of Back pain Outcome reporting methods (FABO). *Journal of Bone Joint Surgery, British Volume 93 (SUPP IV)*, 486-486 [[3.270](#)] [[ND](#)] [[ND](#)] [[0](#)]
28. D Carnes, T Mars, B Mullinger, **R Froud**, M Underwood Incidence of adverse events from manual therapy: a systematic review. *Journal of Bone Joint Surgery, British Volume 93 (SUPP IV)*, 486-487 [[3.270](#)] [[ND](#)] [[ND](#)] [[0](#)]
29. **R Froud**, S Eldridge, M Underwood. Back pain Reporting Outcomes Consensus (BaROC). *Journal of Bone Joint Surgery, British Volume 93 (SUPP IV)*, 486-486 [[3.270](#)] [[ND](#)] [[ND](#)] [[0](#)]
30. **Froud R**, and Underwood M. Devaluing the currency. *BMJ Rapid Response to Exercise therapy after corticosteroid injection for moderate to severe shoulder pain: large pragmatic randomised trial*. Crawshaw et al *BMJ* 340:doi:10.1136/bmj.c3037 (Published 12 July 2010) [[13.660](#)] [[ND](#)] [[ND](#)]
31. **Froud R**, Eldridge S, Lall R, and Underwood M. Using the number needed to treat to report outcomes. a reanalysis of the UK Back Pain Exercise and Manipulation Trial. *Journal of Bone and Joint Surgery - British Volume*, 2010, Vol 92-B, Issue SUPP I, 233 [[2.350](#)] [[ND](#)] [[ND](#)] [[0](#)]
32. Carnes D, Mars TS, Mullinger B, **Froud R**, Underwood M. Adverse events and manual therapy: a systematic review. *Man Ther*. 2010 Aug;15(4):355-63 [[1.690](#)] [[ND](#)] [[10](#)] [[67](#)]
33. **Froud R**, Eldridge S, Lall R, Underwood M. Estimating Number Needed to Treat from continuous outcomes in randomised controlled trials: Methodological challenges and worked example using data from the UK Back Pain Exercise and Manipulation (BEAM) trial. *BMC Med Res Meth* 2009; 9:35 [[2.300](#)] [[7,100](#)] [[ND](#)] [[27](#)]
34. **Froud R**, Underwood M. Usual care in low back pain trials, *Brit J Gen Pract*, 2009, 59(59): 209-210 [[2.440](#)] [[ND](#)] [[ND](#)] [[0](#)]
35. **Froud R**; Eldridge S; and Underwood M, Outcome measures and power in non-specific low back pain trials. *Journal of Bone and Joint Surgery - British Volume*, 2009, Vol 91-B, Issue SUPPII, 284 [[2.650](#)] [[ND](#)] [[ND](#)] [[0](#)]
36. Rajendran D, Fossum C, Collins P, Mullinger B, **Froud, R** Monitoring self-reported adverse events: a prospective, pilot study in a UK osteopathic teaching clinic *Int J Ost Med*, 2009, 12(2):49-55 [[0.210](#)] [[ND](#)] [[ND](#)] [[22](#)]
37. **Froud R**. The COP – A practitioner’s perspective. *The Osteopath*, 2007, 10(9):21 [[N/A](#)] [[ND](#)] [[ND](#)] [[0](#)]
38. **Froud R**. RE: The outer limits of osteopathy. *Osteopathy Today*, 2007, 1(5):18 [[N/A](#)] [[ND](#)] [[ND](#)] [[0](#)]

PUBLISHED SOFTWARE

1. Foss J, **Froud R** Clinvivo Data Catcher., Clinvivo. Android application, Android Market. Package name: com.clinvivo.datacatcher. April 2015
2. **Froud R**, Abel, G. ROCMIC v2.0: Stata module to estimate minimally important change (MIC) thresholds for continuous clinical outcome measures using ROC curves. Boston College RePEc SSC Archive, s457052, 2014 [[3](#)]

3. **Froud R.**, Number Needed to Treat Calculator., Andstat. Android application, Android Market. Package name: info.robertfroud.andstat.nmtcalc. October 2010
4. **Froud R.**, Odds Ratio Calculator., Andstat. Android application, Android Market. Package name: info.robertfroud.andstat.orcalc, September 2010
5. **Froud R.**, Relative Risk Calculator., Andstat. Android application, Android Market. Package name: info.robertfroud.andstat.rrcalc. September 2010
6. **Froud R.**, Samclus - sample size calculator for randomised controlled trials., Andstat. Android application, Android Market. Package name: info.robertfroud.andstat.samclus, September 2010
7. **Froud R.**, ROCMIC: Stata module to estimate minimally important change (MIC) thresholds for continuous clinical outcome measures using ROC curves. Boston College RePEc SSC Archive, s457052, 2009 [2]
8. **Froud R.**, BCII: Stata module to estimate the number needed to treat (NNT) and confidence intervals for patients improving, or 'benefiting' (either improvements gained or deteriorations prevented), in a randomised controlled trial. Boston College RePEc SSC Archive, s457053, 2009

CURRENT ACADEMIC PROJECTS AS PI

Details	Description	Main expected output
	Measuring clinical outcomes using mobile computing technologies	Peer-reviewed publication and IP
EPIC	Exploring back pain Patients perceptions of Important Change; includes systematic review and 40 qualitative interviews. The project is a collaboration involving team and staff members.	Peer-reviewed publication
PROBE	Systematic review of Populations, Reporting, and Outcomes, with Bias Estimation (PROBE) in back pain trials: 1980-2011. The project is a collaboration involving team and staff members.	Five peer-reviewed publications

PhD Students

Carol Fawkes	Developing outcome measures for routine measurement in osteopathic practice Queen Mary University of London Start: Apr 2013, End: Apr 2016	Funded by BOA
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TEACHING EXPERIENCE

I have twelve years of teaching experience, having taught clinical pathology for osteopaths, and research methods and statistics to undergraduates schools in Gothenburg, Oslo, Paris, Toulouse, and the UK. Following the completion of my doctorate at Barts and The London School of Medicine and Dentistry, I taught Clinimetrics on their BMedSci intercalated degree course until the course finished in 2012. I also facilitated PBLs courses and regularly examined OSCE stations on MBBS course throughout my time at Barts. I currently teach research methods, epidemiology, and statistics to students of acupuncture, exercise and nutrition, medicine, osteopathy, and public health.

INVITED TALKS AND KEYNOTE LECTURES

1. BIMM Annual conference. *What does it feel like to have back pain?* Stratford, December 2014
2. ESO Research event. *Considering a career in research* Maidstone, November 2014
3. BBC Coventry and Warwickshire *The social effects back pain* March 2014
4. Campus Kristiania. Osteopati Identitetdag. *Research in Osteopathy* September 2011
5. ESO Research Event. *Researching Osteopathy – is there anything we can do?* November 2010
6. General Osteopathic Council (GOsC) conference, Manchester. *A conservative or liberal practice framework?* June 2009
7. GOsC conference, Stansted. *A conservative or liberal practice framework?* June 2009
8. GOsC conference, Glasgow. *A conservative or liberal practice framework?* March 2009
GOsC conference, Birmingham. *A conservative or liberal practice framework?* March 2009
9. National Council for Osteopathic Research (NCOR), Advancing Osteopathy. Queen Elizabeth Conference centre. *Should osteopathy get back to its roots?* January 2008

CONFERENCE PRESENTATIONS

1. LBP Forum XIII. Validation and implementation of a resource questionnaire for use in low back-pain research. (Workshop) M Dritsaki R Froud, M Underwood. Campos do Jordao, Brazil, September 30 to October 3, 2014.
2. LBP Forum XIII. The effect of journal impact factor, reporting conflicts of interest, and reporting funding sources, on standardized effect size in back pain trials. R Froud, T Bjrkli, P Bright, D Rajendran, D Evans, S Eldridge, M Underwood, R Buchbinder. Campos do Jordao, Brazil, September 30 to October 3, 2014.
3. LBP Forum XIII. Roland Morris change scores can be independent of changes in back pain. R Froud, D Ellard, S Patel, S Eldridge, M Underwood. Campos do Jordao, Brazil, September 30 to October 3, 2014.
4. Norsk Forening for Ryggforskning Tverrfaglig Ryggforum (NFRF) annual meeting. Systematic review of populations, reporting, and outcomes, with bias estimation (PROBE) in back pain trials: 1980-2012. R Froud, S Patel, P Bright, T Bjrkli, S Eldridge, D Rajendran, R Buchbinder, D Evans, M Underwood. Oslo, April 2013
5. Society of back pain research conference (SBPR) annual meeting. Frequency and pattern of commonly occurring adverse events following osteopathic treatment in an osteopathic teaching clinic. D Rajendran, P Bright, R Froud. Isle of Man, November 2012

6. LBP Forum XII. Systematic review of populations, reporting, and outcomes, with bias estimation (PROBE) in back pain trials: 1980-2012. R Froud, T Bjrkli, P Bright, S Patel, D Rajendran, M Underwood, S Eldridge D Evans, R Buchbinder. 16 to 19 October, 2012
7. LBP Forum XII. Systematic review of populations, reporting, and outcomes, with bias estimation (PROBE) in back pain trials: 1980-2012. PART II - Minimally important changes. R Froud, S Patel, P Bright, T Bjrkli, S Eldridge, D Rajendran, R Buchbinder, D Evans, M Underwood. Odense. 16 to 19 October, 2012
8. LBP Forum XII R Froud, S Patterson, S Eldridge, C Fossum, T Pincus, C Seale, M Underwood. What aspects of improvement in low back pain do patients consider important? A systematic review and meta-synthesis of qualitative literature. Odense. 16 to 19 October, 2012
9. Society of back pain research conference (SBPR) annual meeting. Froud R, Patterson S, Eldridge S, Patel S, Pincus T, Seale C, Underwood M. What Aspects Of Improvement In Low Back Pain Do Patients Consider Important? A Systematic Review and Meta-Synthesis of Qualitative Literature. Cambridge, November 2011
10. Society for the Advancement of Primary Care (SAPC), Madingly Hall, Cambridge. Froud R, Eldridge S, Underwood M. The back pain reporting outcomes consensus (BaROC). January 2011
11. Barts and the London School of Medicine and Dentistry seminar series. Froud R, Eldridge S, Diaz-Ordaz K, Marinho V, Donner A. The quality of cluster randomised trials in oral health. November 2010
12. Society of back pain research conference (SBPR) annual meeting. Froud R, Eldridge S, Underwood M. Face validity of reporting back pain trial outcomes. Chepstow, November 2009
13. LBP Forum X, Harvard School of Public Health. Patel S, Underwood M, Froud R, Friede T, Evans D, Lamb S. A systematic review of randomised control trials of clinical prediction rules for low back pain. June 2009
14. LBP Forum X, Harvard School of Public Health. Froud R, Eldridge S, Underwood M. Face validity of Back pain Outcome reporting methods (FABO). June 2009
15. LBP Forum X, Harvard School of Public Health. Froud R, Eldridge S, Underwood M. Minimally important change on the Roland Morris Disability Questionnaire. June 2009
16. LBP Forum X, Harvard School of Public Health. Froud R, Eldridge S, Lall R, Underwood, M. Estimating number needed to treat (NNT) from continuous outcomes in randomised controlled trials: methodological challenges and a worked example using data from the UK Back Pain Exercise and Manipulation (BEAM) trial. June 2009
17. SBPR, Keel University. Froud R, Eldridge S, Lall R, Underwood M. Calculating NNT using continuous outcome measures. A reanalysis of the UK BEAM trial. November 2008
18. SBPR, Keel University. Froud R, Eldridge S, Underwood, M. Minimally important change on the Roland Morris Disability Questionnaire. November, 2008
19. 7th International Conference on Advances in Osteopathic Research (ICAOR), Florida. Froud R, Rajenderan D, Mullinger B, Collins P, Fossum C. How do patients feel post treatment? Pilot study of self-reported adverse events at a UK osteopathic teaching clinic. September 2008
20. SAPC, Madingly Hall, Cambridge. Froud R, Eldridge S, Underwood, M. Interpreting outcomes in back pain trials: UK BEAM – Was it meaningful? January 2008
21. LBP Forum IX, Palma de Mallorca. Froud R, Eldridge S, Underwood, M. Reporting methods in back pain trials. Part I: Outcome measures. October 2007
22. LBP Forum IX, Palma de Mallorca. Froud R, Eldridge S, Underwood, M. Reporting methods in back pain trials. Part II: The power of low back pain trials. October 2007

POST-GRADUATE COURSES AND RELEVANT TRAINING

Media Training	RHL Media, UoW	March, 2014
Winning Grant Funding Masterclass	Barts and the London, QMUoL	July, 2012
Good Clinical Practice refresher course	JMRO, Barts and the London, QMUoL	May 2012
Design and conduct of cluster randomised trials	Barts and the London, QMUoL	December 2009 to September 2010
Joint modelling of longitudinal and survival data in clinical research (Joiner)	Medical Research Council	May 2009
An introduction to medical statistics using Stata	Royal Statistical Society	September 2008
An introduction to Stata	Royal Statistical Society	December 2007
Qualitative research interviewing	University of Surrey	October 2007
Masterclass in the design and conduct of randomised trials	University of York	July 2007
Good clinical practice and research governance	Barts and the London, QMUoL	July 2007
Clinimetrics: assessing measurement properties of health measurement instruments (C202)	VU university	May 2007
Presenting research to an audience	Barts and the London, QMUoL	April 2007
Becoming a PBL facilitator	Barts and the London, QMUoL	March 2007
Introduction to Problem Based Learning (PBL)	Barts and the London, QMUoL	March 2007

Making a poster presentation	Barts and the London, QMUoL	March 2007
Objective Structured Clinical Examination (OSCE) training	Barts and the London, QMUoL	February 2007
Objective Structured Clinical Examination (OSCE) training	Barts and the London, QMUoL	February 2007
Advanced Research Methods, MSc module	Barts and the London, QMUoL	January 2007 to April 2007
Epidemiology and Statistics, MSc module	Barts and the London, QMUoL	September 2006 to April 2007
Research Methods, MSc module	Barts and the London, QMUoL	September 2006 to December 2007

COMPUTER SKILLS

Advanced knowledge of Android, Linux, and Windows computer operating systems.

Experience of programming using Basic, C++, Codeignitor, HTML5, Java, Javascript, L^AT_EX, MySQL, Mata, Pascal, PHP, Phonegap (Cordova), R, Stata (C-like), Visual Basic 6, and Visual Basic .net

ADDITIONAL RELEVANT EXPERIENCE AND SKILLS

Peer-reviewer for ARUK, BMJ, BMJ Open, Chiropractic and Manual Therapy, Journal of Bodywork and Movement Therapies, European Journal of Pain, Manual therapy, NIHR, Osteopathic Medicine and Primary Care, Public Health, PLoS One and Quality of Life Research

National Council for Osteopathic Research (NCOR) research hub coordinator (Kent) in 2008

Institute of Health Sciences Student Staff Committee (SSC) representative from 2007 to 2009

PBL facilitator (for first and second year MBBS students), since 2008

Supervising and marking for BSc (Hons), BmedSci and MSc. Since 2003, 2007, and 2011 respectively

Objective Structured Clinical Examination (OSCE) examiner (part 3b) for final year MBBS students since 2007

Languages: English and French