

Curriculum Vitae 2024

Corey J Scholes

2024-10-10

Scientist and Analysis Executive with 15 years of experience bridging the gap between clinical research and evidence-generation with routine practice across diverse settings. A collaborative leader with the ability to communicate technically across multidisciplinary teams and influence behaviour change to embed data-driven practices into long-term strategies. An experienced consultant assisting executive teams to bring about change within their own organisations through strategic planning, ideation and implementation of complex systems.

WORK EXPERIENCE

Co-Founder and Director

[EBM Analytics](#) *Jul 2016 - Present*

- Spearheaded the growth of EBM Analytics from a startup to a successful company with annual revenues exceeding \$750,000.
- Built a strong client base across public and private health sectors, government, and industry, located in nearly every state in Australia.
- Expanded the team from 1 to up to 10 full-time equivalent positions, fostering a culture of collaboration and innovation.
- Designed, implemented, and supported complex specialist clinical registries for sports medicine, joint arthroplasty and oncology, resulting in improved patient outcomes reporting and insights.
- Established routine reporting of outcomes for clinical, health management, and industry audiences, providing valuable insights for stakeholders.
- Provided boutique data and research consultancy, with output including (but not limited to) peer-reviewed research articles and high-level reports.

Chief Science Officer

EBM Analytics 2020 - Present

- Provide scientific leadership to clinical research projects and engagements in which the company is involved.
- Represent the company's interests in the establishment of strategic partnerships and collaborations.
- Develop and implement research strategy for clientele.
- Offer guidance on methodological approaches to ensure high-quality research outputs.
- Collaborate with clients, clinicians, researchers, and other stakeholders to understand stakeholder requirements, provide scientific guidance, and communicate project results effectively.
- Develop and maintain a deep understanding of various research methodologies, including clinical trials, observational studies, health outcomes, health services and systematic review/meta-analysis research.
- Lead the analysis and interpretation of complex data sets, including clinical registry data, providing actionable insights to clients and stakeholders while ensuring regulatory compliance with relevant guidelines and industry standards.
- Oversee engineers, analysts, and clinicians, providing guidance internally and externally to the company on project management, data analysis, and output preparation.

Director of Research

Sydney Orthopaedic Research Institute 2009 - 2016

- Plan, lead and manage research activities within the Institute.
- Develop research strategy in consultation with Institute Directors.
- Conduct regular reporting to the Board on research, project and operational activities of the Institute.
- Contribute to financial planning, monitoring and reporting.
- Offer guidance on methodological approaches to ensure high-quality research outputs.
- Provide close assistance to clinician researchers in the preparation of presentations and research articles.
- Act as primary point of contact for staffing, contracting and supplier engagements.
- Champion transition of IT infrastructure to updated and upgraded software and hardware to support growing operational load.

Army Officer

Australian Army Reserve 2009 - 2015

- Responsible for the training, administration and leadership of up to 50 personnel
- Provide command presence and tactical leadership during simulated and live-fire infantry training exercises and ceremonial activities.
- Train, mentor and develop team leaders under command, including the planning and conduct of training activities specific to their development.
- Directly contribute to soldier training through presentation and demonstration in classroom and field environments.
- Coordinate enabling elements to support training activities and simulated combat operations.
- Contribute to command activities in collaboration with Senior Management within joint planning, budgeting and personnel administration.
- Contribute to operational planning, including risk management, for training activities for up to 200 personnel.

Teaching Assistant

[Queensland University of Technology](#) 2006 - 2008

- Plan, prepare and deliver lectures on fundamental and advanced biomechanics and functional anatomy.
- Conduct syllabus planning and preparation for semester units and the fundamental and advanced levels.
- Conduct tutorial sessions to develop student practical skills in movement analysis and exercise prescription.

Research Assistant

[Queensland University of Technology](#) 2004 - 2005

- Assist with research projects on worker health in the coal mining industry.
- Prepare research output materials for presentations and government reports on the state-of-the-art in worker health within the industry
- Contribute to on-site measurements of contractors in active coal mines within the Central Highlands of Queensland.

EDUCATION

Doctor of Philosophy – Exercise Science *Queensland University of Technology* Feb 2005
— Oct 2010

- [The effects of fatigue on knee function during landing](#)

- Vice-Chancellor Scholarship (2005-2008)
- Supervisors
 - Dr Michael D McDonald
 - Prof Anthony W Parker

BApp Sci (Hons) *Queensland University of Technology 2004*

BApp Sci (Human Movement Studies) *Queensland University of Technology 2001 - 2003*

CREDENTIALS

- Good Clinical Practice
- Working With Children Check

MEMBERSHIPS

- International Society for Arthroscopy and Knee Orthopaedic Surgery
- Australian Institute of Company Directors
- Australia and New Zealand Orthopaedic Research Society (Past)

SKILLS

Technical

- Statistics and Methods
 - Extract, transform and load data processing
 - Modelling (Prediction and Inference)
 - Machine Learning
 - Natural language processing
 - Signal processing
 - Time series analysis
 - Survival analysis
 - Multistate modelling
 - Meta-analysis and regression
 - Clinical trials
 - Clinical quality registry
- Languages and Environments (familiarity and working knowledge)

- R, RStudio, Quarto
- Stata
- Matlab
- Google Cloud Platform
 - * LookerStudio
 - * App Scripts
- SQL
- Regular expressions
- Version control (git)
- Project management (ClickUp)

Non-Technical

- Leadership, business development, ethics, governance
- Collaboration, communication, public-speaking, team-building
- Problem-solving, adaptability, self-awareness, conflict resolution
- Strategic thinking, risk assessment and mitigation, long-term planning

SCIENTIFIC OUTPUT

A summary of my research output is available at [Google Scholar](#) and [Orcid.org](#). My summary [profile](#) from Publons (Web of Science) also illustrates my contributions to peer-review with respected journals within my field. Selected citations to illustrate my experience in key science domains are summarised below, including preprint articles that have yet to be submitted for peer review.

Domain	Summary	Example Citations
Meta-science	Systematic Review Meta-Analysis Meta-Regression	(Corey Scholes et al. 2015) (Harrison-Brown et al. 2019) (Corey Scholes, Ektas, et al. 2023)
Open Science	Trial registration Protocol development	(Ektas et al. 2019; Fatima et al. 2022)
Computed Assisted Surgery	Shoulder, Hip, Knee	(Nashikkar, Scholes, and Haber 2019; Lustig et al. 2013; Corey Scholes, Schwagli, and Ireland 2023; Oussedik et al. 2012)
Clinical Quality Registry	Description and validation of registries in practice	(Jenio et al. 2019; Corey Scholes, Eng, et al. 2023; Lee et al. 2020)

Domain	Summary	Example Citations
Clinical Outcomes and Prediction Modelling	Description and analysis of observational data in practice	(Harrison-Brown et al. 2024; Corey Scholes, Fatima, et al. 2024)
Clinical Trials	Conduct and reporting of clinical trials	(De Wall et al. 2011)
Population Health	Use of national level resources to answer clinical questions	(CJ Scholes et al. 2019; Corey Scholes, Holder, et al. 2024)
Health Services	Assessment and implementation of model of care changes	(Barton et al. 2024; Tuckerman et al. 2020)

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- De Wall, Mathew, Corey J Scholes, Sandeep Patel, Myles RJ Coolican, and David A Parker. 2011. "Tibial Fixation in Anterior Cruciate Ligament Reconstruction: A Prospective Randomized Study Comparing Metal Interference Screw and Staples with a Centrally Placed Polyethylene Screw and Sheath." *The American Journal of Sports Medicine* 39 (9): 1858–64.
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- Fatima, Manaal, Nalan Ektas, Corey Scholes, Michael Symes, and Andrew Wines. 2022. "The Effect of Osteotomy Technique (Flat-Cut Vs Wedge-Cut Weil) on Pain Relief and Complication Incidence Following Surgical Treatment for Metatarsalgia in a Private Metropolitan Clinic: Protocol for a Randomised Controlled Trial." *Trials* 23 (1): 690.
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