

SACHIN KAROL

Medical Communications · Scientific Editor · Technical Writer

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PROFESSIONAL SUMMARY

Medical and scientific editor with more than 13 years of experience and over 2,400 manuscripts edited. Currently edits medical communications materials for a consultancy client, proofing regulated promotional copy and product web content against approved source documents and flagging discrepancies for revision. Also rewrites dense drug information into plain language for patients and edits clinical and scientific manuscripts. Brings the accuracy and source-of-truth discipline that regulated pharmaceutical materials demand, backed by an MS in Bioengineering and subject range across the biomedical, physical, and life sciences. Available for medical communications, editing, and technical writing engagements.

CORE SKILLS

Medical Communications: regulated promotional proofreading, layout-versus-approved-copy-deck fidelity checks, fair-balance and reference verification, editorial QC against product monographs and approved sources, and plain-language editing for patient materials with readability grading

Editing: substantive editing, copyediting, technical review, manuscript restructuring, author queries, and compliance with journal style guides and author guidelines

Subjects: medicine and the biomedical sciences, materials science, nanotechnology, engineering, physics, chemistry, and the physical and life sciences

Documentation: end-user guides, API references, task-based procedures, and technical field references

Tools: Microsoft Word (Track Changes and comments), Adobe Acrobat, EndNote, Zotero, and Markdown

PROFESSIONAL EXPERIENCE

Self-employed | Freelance Medical & Scientific Editor, Technical Writer

Toronto, Ontario | 2025-Present

- Edit medical communications materials for a consultancy client: proof regulated promotional copy and product web content against approved source documents, and flag discrepancies for revision.
- Built and published a medical communications portfolio on sachinkarol.com: an HCP promotional layout-versus-copy-deck proofreading sample, a patient plain-language drug-information edit (reading grade 14.6 to 8.2), and a clinical manuscript edit, each self-authored on public sources with no client material.
- Edit research manuscripts and technical documents for individual authors, focusing on scientific logic, terminology, clarity, and journal submission requirements.
- Published scientific editing and technical documentation samples on sachinkarol.com, including before-and-after manuscript edits, a Salesforce user guide, and a metallic-corrosion field reference for engineers.

Cactus Communications | Freelance Academic Editor, Physical Sciences and Engineering

Canada and India | 2011-2024

- Edited more than 2,400 research manuscripts, totalling over 6 million words, for submission to journals including Nature, Science, Nano Letters, and Advanced Materials.
- Specialised in materials science, particularly nanotechnology and nanomaterials, while also editing manuscripts across engineering, physics, chemistry, and related physical and life sciences.
- Evaluated scientific arguments for clarity, coherence, and evidentiary support. Reorganised manuscripts where the reasoning was difficult to follow and queried authors when claims extended beyond the available data.
- Checked consistency among methods, results, tables, figures, and conclusions. Corrected field-specific terminology and edited figure captions, reference lists, and other manuscript elements.
- Applied journal-specific style and submission requirements while preserving authors' intended meaning. Many of these authors wrote in English as an additional language.
- Received repeat assignments from authors who requested me by name.
- Consistently ranked among the top editors in the company's Physical Sciences and Engineering vertical, based on internal quality assessments. Met all assigned deadlines across a 13-year freelance engagement.

University of Illinois at Chicago | Research Specialist, Department of Restorative Dentistry

Chicago, Illinois | 2007-2011

- Promoted from Research Assistant to Research Specialist.
- Characterised the mechanical properties of dental composites, dentin-resin bonded interfaces, and nanostructured carbide-derived carbon using nanoindentation.
- Investigated the degradation of dental composites by oral bacterial biofilms and the short- and long-term effects of collagen cross-linkers on bonded interfaces.
- Co-authored the resulting publications with collaborators across restorative dentistry, bioengineering, and materials science.

EDUCATION

Master of Science, Bioengineering

University of Illinois at Chicago | Chicago, Illinois, USA | 2011

Certificate, Data Analytics, Big Data, and Predictive Analytics

Toronto Metropolitan University (formerly Ryerson) | Toronto, Ontario, Canada | 2018

Bachelor of Engineering, Instrumentation and Electronics

Bangalore University | Bangalore, Karnataka, India | 1999

SELECTED PUBLICATIONS

Bedran-Russo, A.K., Karol, S., Pashley, D.H., & Viana, G. (2013). Site-specific properties of carious dentin matrices biomodified with collagen cross-linkers. *American Journal of Dentistry*, 26(5), 244-248.

Ravindran, S., Gao, Q., Kotecha, M., Magin, R. L., Karol, S., Bedran-Russo, A., et al. (2012). Biomimetic extracellular matrix-incorporated scaffold induces osteogenic gene expression in human marrow stromal cells. *Tissue Engineering Part A*, 18(3-4), 295-309.

Castellan, C.S., Bedran-Russo, A.K., Karol, S., & Pereira, P.N. (2011). Long-term stability of dentin matrix following treatment with various natural collagen cross-linkers. *Journal of the Mechanical Behavior of Biomedical Materials*, 4(7), 1343-1350.

dos Santos, P.H., Karol, S., & Bedran-Russo, A.K. (2011). Long-term nanomechanical properties of biomodified dentin-resin interface components. *Journal of Biomechanics*, 44(9), 1691-1694.

Full publication list: scholar.google.com/citations?user=szmWle4AAAAJ