

***Stephen X. Arthur, B.Sc., M.F.A., M.Sc.**(neurophysiology)

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Freelance Scientific Writer: Publications and Grants for Research



I help overloaded clinicians and biomedical researchers to communicate their findings and obtain funding for new research.

With minimal guidance, I deliver comprehensively structured, polished manuscripts that are optimized for impact in peer-reviewed journals—pre-clinical and clinical research reports and critical scientific literature-review articles.

In the fierce competition for grants, I practice the art of creating an alluring and scientifically sound grant proposal, ensuring that the quality of the writing does not prevent the application from being funded.

Selected Contracts

Indivior Inc. (Richmond, Virginia)

Developed a comprehensive review article (for peer-reviewed journal publication) on a pharmaceutical system for drug delivery (including writing, editing, literature search, literature review, and citations). Subjects included chemistry, formulation development, pharmacokinetics, and clinical applications. Nov. 2018 – April 2019

LightIntegra Technology Inc. (Vancouver)

Wrote and edited research reports and a critical literature-review article on biotechnology for publication in peer-reviewed journals—including results of clinical trials and health economic outcomes research. The technology uses dynamic light scattering to evaluate in detail the microparticle messengers originating from platelets in blood plasma samples.

> *When we started on the first manuscript I thought it would take him some time to learn all necessary background but Stephen got into it right away and made excellent recommendations and invaluable observations right away. He does not only add value by editing the text but also with critical thinking, literature searches, finishing figures and making sure that a submission follows all guidelines. Stephen delivers on time even when a tight deadline needs to be met and is always really nice to work with. My co-authors, all high-profile members of the scientific community, have also been impressed.* — Elisabeth Maurer, Founder & CTO. Sept. 2015 to Sept. 2016

Rancho Los Amigos National Rehabilitation Center

(Los Angeles) Wrote over 16 full proposals for quality-of-life program grants and pragmatic clinical research grants, mainly for rehabilitation of spinal cord injury. Ensured the prompt publication of clinical research results that had been languishing for years. Maximized the impact of grant proposals, fact sheets for Web publication, and a guest editorial. Evaluated foundations and tailored letters of intent. Wrote a perspective article for the *Journal of Humanities in Rehabilitation*. > *I have*

been impressed with Stephen's abilities to comprehend and express complex scientific findings. He is meticulous and detail oriented. He has initiative and drive to help you succeed. — Yaga Szlachcic, Chair of the Department of Medicine. Sept. 2012 to present

BC Cancer Agency Research Centre (Vancouver)

Wrote a proposal on cancer genomics for Dr. Samuel Abraham, VP Research. March 2012

McGill University Health Centre - Research Institute

(Montreal) Provided extensive rewriting for a theoretical literature review article on subcellular injuries in Alzheimer's disease co-authored by Vassilios Papadopoulos, DPharm, PhD, Canada Research Chair in Biochemical Pharmacology, Executive Director of MUHC Research Institute. Also designed and produced cellular-signaling illustrations to help readers quickly grasp the theoretical concepts. Combining writer and illustrator saved much time for the author. March 2012

New York University – Bluestone Center for Clinical Research and the Translational Cancer Pain Laboratory

Was on the leading edge of writing for the NIH's newly introduced R01 short-form application—one NIH reviewer "found this application to be extremely well-written and understandable." Provided extensive rewriting for an original research report to reveal the brilliance of the investigator's work hidden within the original drafts. Wrote large sections of critical literature review articles from assigned literature searches. Created illustrations of hypothesized cell-signaling mechanisms (design to finish). Contributions included uncovering facts, seeing new connections, and giving a fresh analytical perspective that was invaluable to the client. *Subjects:* endogenous molecular mediators of cancer pain, peripheral nociception, epigenetics, genomic and signaling pathways, regulation of receptor expression, endothelin and endocannabinoid receptors, surgical and

molecular interventions, behavioral animal models, and pre-clinical and clinical translational research for development of novel analgesic drugs. > *Stephen has done a masterful job. Consider me thoroughly impressed.* — Brian Schmidt, MD, PhD, Director, Bluestone Center. June 2010 to May 2012

NYU College Of Dentistry

Wrote a critical literature-review article for a peer-reviewed journal, based on suggested references and additional literature search, evaluating research on the heritability of microbial resistance to oral disease. Client was an ESL author and administrator who would never have had the time to do this herself. May 2012

University of California, San Francisco – Faculty of Medicine

Provided substantive editing for journal review articles and primary research manuscripts (preclinical and clinical), developed content for grant applications, and designed clear conceptual illustrations of hypothesized cell signaling pathways. Subject area was cancer pain. February–June 2010

ImageMaker: New Media for the Resource Sector

(Vancouver) Consulted with mining-exploration company executives to effectively portray the right story to investors by way of video scripts for corporate documentaries. 2005–2007

National Film Board of Canada (Vancouver)

Developed a scientific-visualization project for schools—\$80,000 development budget. Researched the subject matter in depth (historical geology), wrote scripts, conducted market research, and evaluated production software and processes. > *Stephen was a catalyst for consensus building and teamwork between creative and technical contributors, delivering results ahead of schedule.* — George Johnson, Producer, NFB. 1998-2000

Science World BC (Vancouver)

Collected, interpreted, and summarized stories for an interactive kiosk on the history of science. Contract 1993

Other relevant experience

Graduate thesis in neuroscience

Performed receptor binding assays to identify a pathway's neurotransmitter. Presented at poster sessions at UBC Dept. Ophthalmology and Society for Neuroscience Annual Meeting in New Orleans.

Undergraduate thesis in zoology

Wrote an original monograph entitled *Toward a Complete Synthetic Theory of Evolution*.

Arts grants & screenplays

Wrote successful production grants for short animation films totaling over \$215,000. Wrote six feature-length movie screenplays and sold options to produce.

Science textbook (*From Above the Web*)

Commissioned to write, with co-author Lorne Whitehead (recently Vice President Academic at UBC), a 400-page college-level general science textbook based on flowcharts that show the logical and historical relationships between major concepts. Covered sub-atomic physics, chemistry, and biology. Unpublished. Federal grant.

Technical writing contracts

AeroStrategies Limited (Vancouver)

Edited, rewrote, illustrated, designed, and produced a 200-page forensic engineering report for an aviation consulting company. January–May 2013

Impact BC—Practice Support Program, an alliance between BC Ministry of Health Services, BCMA, and regional health authorities (Vancouver)

Wrote a series of training guides to help family physicians be proactive in managing care for patients with chronic conditions. A subsequent survey of the program showed a positive impact on both patient care and physician satisfaction. 2006–2008

IMT Image & Microscope Technology • B.C. Ministry of Forests • B.C. Hydro • BC Mineral, Oil and Gas Revenue Branch • BC Transmission Corporation • CHC Helicopter Global Operations • McDonald Dettwiler and Associates • Glenayre Electronics • Richmond Fire-Rescue • Hughes Canada Systems Division • Spectrum Signal Processing • E-Comm 9-1-1 (Vancouver)

Developed and wrote instructions and training-program information in clear, plain English, carefully designed to be concise, comprehensive, easily usable by the target audience, and complying with regulations. In these ways I helped increase sales and implement practices and processes. 1984 to 2008

Corporate documentaries and training videos for various clients, including BC Cancer Agency and BC Children's Hospital (Vancouver)

As an expert video script writer, designed image and sound to work together for optimal impact and comprehension. 1985-1995

Education

> Master of Science (Physiology/neuroscience)

University of British Columbia, Vancouver, 1988-1991

> Master of Fine Arts (Film production/screenwriting)

University of Southern California, Los Angeles, 1979-1980

> Bachelor of Science (Zoology)

University of British Columbia, Vancouver, 1973-1977