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EDUCATION

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|--------------------------------|---|------|
| Princeton University | Ph.D. in Ecology and Evolutionary Biology | 2000 |
| Princeton University | M.A. in Ecology and Evolutionary Biology | 1995 |
| University of British Columbia | M.Sc. in Zoology | 1992 |
| University of British Columbia | B.Sc. (Honours) in Zoology | 1987 |

EMPLOYMENT HISTORY

BIOMEDICAL COMMUNICATIONS

Freelance Medical Writing Consultant

2009 – Present

- Research, writing, review and editing of:
 - Global value dossiers
 - Peer-reviewed publications
 - PowerPoint slide presentations for market access presentations
 - Budget impact and cost-effectiveness model reports
 - Research project plans
- Graphical data presentation
- Literature review using online search tools
- Review and editing of:
 - Global value dossiers
 - PowerPoint slide presentations
 - Website and other marketing text
- Projects on the following topics: colorectal cancer, dementia, chronic kidney disease, immune (idiopathic) thrombocytopenic purpura, idiopathic pulmonary fibrosis, metastatic bone disease, prostate cancer, pulmonary arterial hypertension, subarachnoid hemorrhage

Managing Editor**IC Axon****2006 – 2009**

- Content management of sales-force training programmes for clients in the pharmaceutical industry
- Review and editing of:
 - Interactive multimedia scripts
 - PowerPoint slide presentations for live-training workshops
 - Print-based educational materials
- Project scoping and resource estimation
- Creation of Design Documents to plan instructional framework
- Projects on the following topics: Alzheimer's disease, attention deficit/hyperactivity disorder, breast cancer, cardiovascular disease, clinical statistics, hepatitis B and C, insomnia, iron chelation, osteoporosis, overactive bladder, Parkinson's disease, psoriasis, rheumatoid arthritis, spondyloarthropathies
- Recruitment, training and supervision of team of up to 10 Medical Writers
- Conducting performance evaluations and salary reviews
- Development and revision of standard operating procedures
- Travel to on-site meetings with pharma clients in US

Senior Research Application**BioMedCom Consultants****2002 – 2006****Associate (Medical Writer)**

- Management of biomedical communications projects for clients in pharmaceutical industry and academia
- Research, writing, review and editing of:
 - Peer-reviewed publications
 - Summaries of research articles for continuing medical education
 - Market access submissions
 - Briefing documents for pharmaceutical company in-house use
- Development of PowerPoint slide-shows for client market access presentations and physician detailing
- Development of marketing materials
- Development and revision of standard operating procedures
- Graphical data presentation
- Literature review using online search tools
- Health economic data analysis and computer modelling
- Projects on the following topics: acid-peptic disorders, analgesics, asthma, Alzheimer's disease, benign prostatic hyperplasia, cardiovascular disease, continuing medical education, health economics, hepatitis B, human papillomavirus, hypothyroidism, oral hygiene, osteoarthritis, osteoporosis, rheumatoid arthritis, schizophrenia
- Chair, Ethics Committee
- Website maintenance

Biomedical Publications (proprietary company documents are not listed)

Authored

- Marquis P, Arnould B, Acquadro C, **Roberts WM**. Patient-reported outcomes and health-related quality of life in effectiveness studies: pros and cons. *Drug Dev Res*. 2006;67:193-201.
- Fitzner K, Fox K, Schmidt J, **Roberts WM**, Rindress D, Hay J. Implementation and outcomes of commercial disease management programs in the United States: the Disease Management Outcomes Consolidation Survey. *Dis Manag*. 2005;8:253-64.

Developed as freelance medical writer

- Pettigrew M, Soltys GI, Bell RZ, Daniel N, Davis JR, Senecal L, Leblanc M. Tinzaparin reduces health care resource use for anticoagulation in hemodialysis. *Hemodial Int*. 2011; doi: 10.1111/j.1542-4758.2011.00531.x. [Epub ahead of print]
- Chabot I, Leloirier J, Blackstein ME. The challenge of conducting pharmacoeconomic evaluations in oncology using crossover trials: the example of sunitinib for gastrointestinal stromal tumour. *Eur J Cancer*. 2008; 44:972-7.

Developed as medical writer at BioMedCom

- Rahme E, Hunsche E, Toubouti Y, Chabot I. Retrospective analysis of utilization patterns and cost implications of coxibs among seniors in Quebec, Canada: what is the potential impact of the withdrawal of rofecoxib? *Arthritis Rheum*. 2006;55:27-34.
- Rahme E, Toubouti Y, LeLorier J. Utilization and cost comparison of current and optimal prescribing of nonsteroidal anti-inflammatory drugs in Quebec, Canada. *J Rheumatol*. 2006;33:588-96..
- Rahme E, Toubouti Y, Hunsche E. Therapy switching and associated costs in elderly patients receiving COX-2 selective inhibitors or non-selective non-steroidal anti-inflammatory drugs in Quebec, Canada. *Rheumatology*. 2006; 45:903-10.
- van der Heijde D, Klareskog L, Singh A, Tornero J, Melo-Gomes J, Codreanu C, Pedersen R, Freundlich B, Fatenejad S. Patient-reported outcomes in a trial of combination therapy with etanercept and methotrexate for rheumatoid arthritis: the TEMPO trial. *Ann Rheum Dis*. 2006; 65:328-34.
- Han D, Wang ECY. The value of medicines in Canada. *Can J Clin Pharmacol*. 2005;12:e10-e21.
- Labelle M, Beaulieu M, Renzi P, Rahme E, Thivierge RL. Integrating clinical practice guidelines into daily practice: impact of an interactive workshop on drafting of a written action plan for asthma patients. *J Contin Educ Health Prof*. 2004;24:39-49.
- Labelle M, Beaulieu M, Paquette D, Fournier C, Bessette L, Choquette D, Rahme E, Thivierge RL. An integrated approach to improving appropriate use of anti-inflammatory medication in the treatment of osteoarthritis in Quebec (Canada): the CURATA model. *Med Teach*. 2004;26:463-70.
- Sebaldt RJ, Petrie A, Goldsmith CH, Marentette MM. Appropriateness of NSAID and coxib prescribing for patients with osteoarthritis by primary care physicians in Ontario: results from the CANOAR study. *Am J Manag Care*. 2004;10:742-50.
- Anonymous. Is repetitive stress an occupational risk in dentistry? *Colgate Oral Care Report*. 2004;14:3-4.

Conference presentation

- **Roberts WM, Rindress D.** Trends in pharmaceutical spending growth in the United States, 1998-2002. Presented at the International Society for Pharmacoeconomics & Outcomes Research 10th Annual International Meeting, Washington DC, May 15-18, 2005.

UNIVERSITY TEACHING

Lecturer **McGill University** **2001 – 2005**

Methods in Biology

- Prepared and delivered lectures for ca. 150 students in 2 of 8 modules in a team-taught course, Fall semester
- Designed and supervised labs on statistics and experimental design
- Directed ca. 9 teaching assistants

Lecturer **McGill University** **2001**

Biostatistical Analysis

- Planned course syllabus
- Prepared and delivered lectures and exams for 130 students
- Developed computer labs
- Supervised 4 teaching assistants
- Designed and maintained course website

FREELANCE CONSULTING

- **The H. John Heinz III Center for Science, Economics and the Environment** **2001**
- **New Jersey Department of Environmental Protection** **2000 - 2001**
- **Environmental Defense** **1999 - 2000**
- **British Columbia Ministry of Agriculture, Fisheries and Foods** **1992**
B.C. Blueberry Industry Development Council
Corporation of the District of Pitt Meadows
- **British Broadcasting Corporation, Natural History Film Unit** **1990**
- **University of California, Irvine, Department of Ecology & Evolutionary Biology** **1987**

PUBLISHING

Recordings Editor, *DSCH Journal*

1997 – 2010

- Developed and coordinated press support (new-release updates, promotional copies of music CDs) from all major classical music recording companies/distributors
- Scheduled and assigned reviews to an international team of contributors
- Wrote selected reviews
- Edited and formatted reviews for publishing
- Designed and managed online CD Review facility

ADDITIONAL SKILLS

Expert in:

- MS Office: Word, Excel, PowerPoint, Access
- Online search utilities (citation indices, search engines, etc.)
- DreamWeaver
- SYSTAT, STATISTICA
- Custom computer programming

ACADEMIC PUBLICATIONS

PAPERS

Dobson AP, Rodríguez JP, **Roberts WM**. Synoptic tinkering: integrating strategies for large-scale conservation. *Ecological Applications*. 2001;11:1019-1026.

Dobson AP, Rodríguez JP, **Roberts WM**, Wilcove DS. Geographical distribution of endangered species in the United States. *Science*. 1997;275:550-553.

Roberts WM. Hummingbirds' concentration preferences at low volume: the importance of time scale. *Animal Behaviour*. 1996;52:361-370.

Roberts WM. Hummingbird licking behaviour and the energetics of nectar feeding. *The Auk*. 1995;112:456-463.

Temeles EJ, **Roberts WM**. Effect of sexual dimorphism in bill length on foraging behavior: an empirical analysis of hummingbirds. *Oecologia*. 1993;94:87-94.

Gass CL, **Roberts WM**. . The problem of temporal scale in optimization: three contrasting views of hummingbird visits to flowers. *The American Naturalist* 1992;140:829-853.

PUBLISHED CORRESPONDENCE

Dobson AP, Rodríguez JP, **Roberts WM**, Wilcove DS. Response to Czech B and P. R. Krausman (Distribution and causation of species endangerment in the United States. *Science*. 1997;277:1116-1117). *Science* 1997;277:1117.

Dobson AP, Rodríguez JP, **Roberts WM**, Wilcove DS. Response to Dunn CP *et al* (Endangered species "hot spots". *Science*. 1997;276:513-515) and Ehrenfeld D *et al* (*ibid*:515-516). *Science*. 1997;276:516-517.

CONFERENCE PRESENTATIONS

- Dobson A, **Roberts WM**, Rodríguez JP, Wilcove D. Conservation strategies at a demi-continental scale: reconciling problems of scale, perspective and geographical distribution. Presented at Ecological Society of America Annual Meeting, Spokane, WA, 8-12 August 1999.
- Dobson AP, Rodríguez JP, **Roberts WM**, Wilcove DS. The geographical distribution of endangered species in the United States. *Supplement to the Bulletin of the Ecological Society of America*. 1996;77:115. Presented at ESA 1996 Annual Combined Meeting, Providence, RI, 10-14 August 1996.
- Roberts WM**. Hummingbirds' concentration preferences and the energetics of nectar feeding: time scale and optimality. *Journal für Ornithologie* 1994;135:151. Presented at XXI International Ornithological Congress, Vienna, Austria, 20-25 August 1994.
- Roberts WM**. Controlling bird damage to blueberry crops: bird behaviour and crop protection. *Proceedings of the 35th Annual Lower Mainland Horticultural Improvement Association Grower's Short Course (Abbotsford, British Columbia, Canada)*. 1993;101-103.

REPORTS

- Roberts WM**. Draft Technical Note: Grassland Birds - Native/Non-Native Indicator; and Materials and Methods: Grassland Birds - Native/Non-Native Indicator. Reports prepared for The H. John Heinz III Center for Science, Economics and the Environment. 2001. Pp. 2 & 6.
- Roberts WM**. New Jersey Comparative Risk Project, Ecological Technical Work Group, Stressor-Specific Risk Assessment: Habitat Loss and Habitat Fragmentation. Reports prepared for New Jersey Department of Environmental Protection. 2001. Pp. 32.
- Roberts WM**, Rodríguez JP, and Dobson AP. Review of the Habitat Conservation Plan for Utah Prairie Dogs in Iron County, Utah. Report prepared for Environmental Defense (formerly Environmental Defense Fund). 2000. Pp. 30.
- Roberts WM**, Rodríguez JP, Good TC, Dobson AP. Population Viability Analysis of the Utah Prairie Dog. Report prepared for Environmental Defense. 2000. Pp. 51.
- Roberts WM**, Rodríguez JP, Dobson AP. Review of Utah Prairie Dog Recovery Plan (U.S. Fish and Wildlife Service 1991). Report prepared for Environmental Defense Fund. 1999. Pp. 9.
- Rodríguez JP, **Roberts WM**, Dobson A. Where are endangered species found in the United States? *Endangered Species Update* 1997;14:1-4.
- Roberts WM**. Controlling bird damage to blueberry crops in Pitt Meadows: a study of bird behaviour and crop protection devices. Report prepared for British Columbia Provincial Ministry of Agriculture, Fisheries and Food, B.C. Blueberry Industry Development Council and Corporation of the District of Pitt Meadows. 1992. Pp. 37.

THESES

- Roberts WM.** Dimorphism for silvering in Mormon fritillary butterflies (*Speyeria mormonia*) Boisduval (Lepidoptera: Nymphalidae: Argynnini). Ph.D. Thesis. Princeton University, Princeton. 2000. Pp. ix + 104.
- Roberts WM.** Hummingbirds' concentration preferences and the energetics of nectar feeding: predictions, tests, and implications for optimal foraging theory and pollination biology. M.Sc. Thesis. University of British Columbia, Vancouver. 1992. Pp. viii + 96.
- Roberts WM.** Temporal patterns of feeding regulation in the rufous hummingbird. B.Sc. Honours Thesis. University of British Columbia, Vancouver. 1987. Pp. vi + 50.