PERSONAL INFORMATION

Martha EVONUK

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POSITION

Scientific Editor

WORK EXPERIENCE

2012-present

Scientific and Technical Editor

Evonuk Scientific Editing, EvonukScientificEditing.com

▪ Ensuring the clear and concise transmission of written scientific and technical information for academic and non-academic audiences.

Business or sector Scientific/Technical Editing - Private

January-April 2023

Deputy Editor

Elements Magazine

▪ Helped get the magazine back on schedule after a prolonged publication delay by copyediting articles, managing the mailing database, and maintaining the magazine webpage.

Business or sector Publishing – Non-profit

October-December 2022

Proofreader

Elements Magazine

▪ Proofread magazine content prior to sending material to press.

Business or sector Publishing – Non-profit

June-October 2022

Executive Assistant Environmental Action Officer

Hôtel de la Porte Dorée, Paris France

▪ Helped develop and implement the 2022 Environmental Action Plan to obtain the Clé verte.

Business or sector Hospitality - Private

2000-2022

University Instructor

École d'ingénieur Denis Diderot, Paris, France (2018-2022, scientific English)

Institut National des Sciences Appliquées, Toulouse, France (2015-2018, scientific English)

Université Toulouse III, Paul Sabatier, Toulouse, France (2014-2017, scientific English)

Universität Bayreuth, Germany (2009, theoretical physics)

ETH Zürich, Switzerland (2007, geomagnetism)

University of California, Santa Cruz, USA (2000-2004, planetary science, computational physics)

▪ Created course content with an emphasis on analysis and scientific writing.
▪ Promoted discussion and critical thinking.

Business or sector Higher Education - Public

2016-2018	**Photographer**

www.EvonukPhotographe.com

▪ Arranged and photographed apartments and houses for sale in the Toulouse area of France.
▪ Processed and finished photos using Adobe Lightroom and Adobe Photoshop.
▪ Arranged and coordinated appointments with homeowners and real estate agents.
▪ Conducted interviews with people in various professions.

Business or sector Real Estate - Private

2006-2015	**Scientific Researcher – Planetary and Geophysics**

Institut de Recherche en Planétologie and Astrophysique, Toulouse, France (2014-2015)

Bayerisches Geoinstitut, Universität Bayreuth, Germany (2010-2014)

Bayerisches Physikalisches Institut, Universität Bayreuth, Germany (2008-2010)

Institut für Geophysik, ETH Zürich, Switzerland (2006-2008)

Center for the Origin Dynamics and Evolution of Planets, UCSC, USA (2006)

▪ Developed 2D and 3D fluid dynamics codes to model the interior dynamics of giant gaseous bodies.
▪ Implemented and optimized parallel processing using MPI.
▪ Developed visualization tools in IDL and ParaView.
▪ Analyzed large 2D and 3D time-dependent datasets.

Business or sector Scientific Research - Public

EDUCATION AND TRAINING

2014	**TELF Certification**

Tefltoulouse, Toulouse, France

▪ Certification to teach English as a foreign language

1999-2006	**PhD in Planetary Science**

Department of Earth Sciences, University of California, Santa Cruz, USA

▪ Scientific computing in serial and parallel, solving differential equations
▪ Manipulation and visualization of large datasets
▪ Optics, astrophysics, planetary science, Earth sciences

2004	**Computational Fluid Mechanics Workshop**

Helmholtz Institute for Supercomputational Physics, Potsdam, Germany

▪ High performance computing and computational fluid dynamics
▪ Code optimization and parallel computing

2001	**High Performance Computational Earth and Space Sciences Workshop**

NASA Summer School, Maryland, USA

▪ Implementation of massive parallel computation (MPI) and IDL

| 1995-1999 | **Bachelor of Arts in Physics and Earth Science, minor in Mathematics** |

Departments of Earth Science and Physics, Boston University, Boston, Massachusetts, USA

- Theoretical and applied physics and mathematics
- Mass spectrometry, sample processing

| 1998 | **Center for the Study of Active Volcanoes (CSAV) Workshop** |

University of Hawaii at Hilo, USA

- Ground leveling surveys, gas geochemistry, seismology

| 1998 | **Summer of Applied Geophysical Experience (SAGE) Workshop** |

Los Alamos National Laboratory, New Mexico, USA

- Seismology, remote sensing, filtering magnetic and resistivity data

PERSONAL SKILLS

Mother tongue   English

Other language

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B2	C1	B2	B2	B1

French

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills

- Good verbal and written communication skills gained through experience as a university researcher, instructor, and editor

Job-related skills

- Familiarity with various style guides
- Strong attention to detail
- Experience working with tight and varying deadlines

Computer skills

- Word/PowerPoint/Excel
- Programming: C, Fortran, Python, HTML
- Visualization/animation: ParaView, IDL
- Data management/analysis: R, SQL
- Software packages: Adobe Acrobat/Photoshop/Lightroom

ADDITIONAL INFORMATION

Selected Publications

- **Evonuk, M**., 2014. CaCo3, Cement Block, *Broadsheet,* **Issue 06**, pp 1-4.
- **Evonuk, M**. and Samuel, H., 2012. Simulating rotating fluid bodies: When is vorticity generation via density-stratification important? *Earth and Planetary Science Letters,* **317-318**, pp 1-7.
- Samuel, H. and **Evonuk, M**., 2010. Modeling Advection in Geophysical Flows with Dynamic Implicit Surfaces, *G-cubed,* **11(8)**, Q08020, doi:10.1029/2010GC003081.
- Samuel, H., Tackley, P. J., and **Evonuk, M**., 2010. Heat Partitioning in Terrestrial planets during core Formation by Negative Diapirism, *Earth and Planetary Science Letters,* **290**, pp 13-19.
- Glatzmaier, G. A., **Evonuk, M**., and Rogers, T. M., 2009. Differential rotation in giant planets maintained by density-stratified turbulence. *GAFD,* **103**, pp 31-51.

- **Evonuk, M**., 2008. The role of density-stratification in generating zonal flow structures in a rotating fluid. *Astrophysical J.*, **673**, pp 1164.
- **Evonuk, M**. and Glatzmaier, G. A., 2007. The Effects of Rotation Rate on Deep Convection in Giant Planets with Small Solid Cores. *Planetary and Space Science,* **55**, pp 407-412.
- **Evonuk, M**. and Glatzmaier, G. A., 2006. A 2D Study of the Effects of the Size of a Solid Core on the Equatorial Flow in Giant Planets. *Icarus* **181**, pp 458-464.
- **Evonuk, M.** and Glatzmaier, G. A., 2004. 2D Studies of Various Approximations Used for Modeling Convection in Giant Planets. *GAFD* **98**, pp 241-255.
- El-Baz, F., Robinson, C., Bergen, K., Kusky, T., Fielding, L., Blanco, D., Ledwith, M., Koch, M., Ramage, M., and **Evonuk, M.**, 1997. Utilizing Satellite images for ground water exploration in the Sultanate of Oman, Second Year Interim Report, Oman Ministry of Water Resources, 86 pp.