

CURRICULUM VITAE

José M. Carcione

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Address

Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (OGS)

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Personal data

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Place of Birth: Buenos Aires, Argentina.

Nationality: Argentinian and Italian.

Main achievements

Acoustic and electromagnetic wave propagation theory and numerical simulation applied to rock physics, geophysical exploration, environmental geophysics, seismology, and non-destructive testing of materials.

Websites

Link to ORCID: <http://orcid.org/0000-0002-2839-705X>

OGS: <http://www.ogs.trieste.it/it/user/352>

Private: <http://www.lucabaradello.it/carcione>

Google Scholar page: <http://scholar.google.it/citations?hl=it&user=uTcM89MAAAAJ>

SEG-wiki page: https://wiki.seg.org/wiki/Jos%C3%A9_M._Carcione

H-index (google scholar): 68 (number of citations: 18193)

<https://scholar.google.it/citations?user=uTcM89MAAAAJ&hl=en>

Research gate read: 140.000

<https://www.researchgate.net/profile/Jose-Carcione>

Top Italian Scientist in Natural & Environmental Sciences:

https://topitalianscientists.org/tis/3743/Jos%C3%A9_Carcione_-_Top_Italian_Scientist_in_Natural_&_Environmental_Sciences

Education

- [1966-71] **Técnico Mecánico**. High school. E.N.E.T. n° 1, San Fernando, Buenos Aires, Argentina.
- [1972-78] **Licenciado en Ciencias Físicas** (summa cum laude), Departamento de Física, Buenos Aires University, Argentina.
- [1983-85] **Dottore in Fisica**, Dipartimento di Fisica, Milan University, Italy.
- [1985-87] **Ph.D Geophysics**, Department of Geophysics and Planetary Sciences, Tel-Aviv University, Israel.

Employment

- [1978-80] **Nuclear Physicist** at the Atomic Energy Commission, Buenos Aires. Argentina.
- [1981-86] **Research Geophysicist** at Yacimientos Petrolíferos Fiscales (national oil company), Buenos Aires, Argentina.
- [1984-85] **Consulting Geophysicist** at the Ministry of Energy, Buenos Aires, Argentina.
- [1988-89] **Research Geophysicist** at Hamburg University, West Germany.
- [1989-on] **Research Geophysicist** at OGS. **Dirigente di Ricerca** since 1993 (Associate since 2020). **Head of the Geophysics Department** from 1996 to 2000.
- [2004-2014] **Member** of the commission GEV04 (ANVUR) to evaluate Italian research in the field of “Earth Sciences”.

Editorial work

- [1995-2010] **Assistant Editor** – BOLL. GEOF. TEOR. APPL.

- [1999-2014] **Associate Editor** – *Seismic modeling and wave propagation* – GEOPHYSICS (1999-2001). **Assistant Editor** (2001-2014).
- [2005-on] **Associate Editor** – JOURNAL OF SEISMIC EXPLORATION.
- [2014-2018] **Associate Editor** – ITALIAN JOURNAL OF GEOSCIENCES

Teaching

- [1978-79] Departamento de Física, Universidad Católica Argentina, Buenos Aires, Argentina.
Física Técnica III.
- [1982-85] Universidad Nacional de Cuyo, Mendoza, Argentina.
Sismología II.
- [1988-89] Geophysical Institute, Hamburg University.
Wave Propagation in Anelastic and Porous Media.
- [2000-2009] University of Trondheim, Norway.
Theory and Numerical Modeling of Wave Propagation in Porous, Anelastic, Anisotropic and Electromagnetic Media.
- [2001-2020] Universidade Federal da Bahia. Salvador, Brasil.
Wave Propagation en Real Media.
- [2009-2010] Istituto di Acustica Corbino (IDAC), Rome, Italy.
Theory and Numerical Modeling of Wave Propagation in Seismic and Electromagnetic media.
- [2012-2016] Doctoral School on Earth Sciences and Fluid Dynamics, University of Trieste, Italy.
Geophysical Prospecting.
<http://web.units.it/dottorato/esfm/en/people/carcione-jose-m/235>
- [2016-on] EAGE Lecturer.
<https://eage.org/events/calendar-of-events/>

Fellowships

- [1978-79] **Scholarship** from the Atomic Energy Commission, Argentina.
- [1987-87] **Helmuth Heinemann** Scholarship, Tel-Aviv University, Israel.
- [1988-89] **Alexander von Humboldt** scholarship, Hamburg University, West Germany.

Awards

- [1988] **Alexander von Humboldt fellow.**
- [1990] **Best paper award** in GEOPHYSICS. “An accurate and efficient scheme for wave propagation in linear viscoelastic media”.
- [1997] **Best Poster award.** 59th Ann. Internat. Mtg. Europ. Assoc. Expl. Geophys., Expanded Abstracts, P069.
- [1998] **Cagniard award.** 60th Ann. Internat. Mtg. Europ. Assoc. Expl. Geophys., Expanded Abstracts, P013.
- [2002] **Best paper award** in GEOPHYSICS. “Seismic modeling”.
- [2007] **EAGE Nigel Anstey award.** 69th Ann. Internat. Mtg. Europ. Assoc. Expl. Geophys.
- [2009] **SEG 2009 Honorary Lecturer** tour for South and Central America.
- [2017] **EAGE Conrad Schlumberger award.** 79th Ann. Internat. Mtg. Europ. Assoc. Expl. Geophys.
- [2019] **Best paper award** in GEOPHYSICS. “Wave simulation in thermoelastic media”.

Short biography

José M. Carcione was born in Buenos Aires, Argentina. He has the degrees “Licenciado in Ciencias Físicas” from Buenos Aires University in 1978, “Dottore in Fisica” from Milan University in 1984, and the Ph.D in Geophysics from Tel-Aviv University in 1987. From 1978 to 1980 he performed research at the “Comisión Nacional de Energía Atómica” at Buenos Aires. From 1981 to 1987 he was employed as a research geophysicist at “Yacimientos Petrolíferos Fiscales”, the national oil company of Argentina. Presently, he is Research Associate at the “Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (OGS)” (former “Osservatorio Geofisico Sperimentale”) in Trieste. He was awarded the Alexander von Humboldt scholarship for a post-doc at Hamburg University, where he stayed from 1987 to 1989. He received the 2007 Anstey award at the EAGE in London and the 2017 EAGE Conrad Schlumberger award in Paris. Carcione published more than 400 journal articles on acoustic and electromagnetic numerical modeling, with applications to oil exploration and environmental geophysics. He is the author of the book *Wave fields in Real Media – Theory and numerical simulation of wave propagation in anisotropic, anelastic, porous and electromagnetic media* (four editions, Pergamon Press, 2001; Elsevier Science, 2007, 2014, 2022) and co-author of *Arqueo-geofísica: Una metodología interdisciplinaria para explorar el pasado*, (Fundación de Historia Natural, 2006), *Seismic exploration of hydrocarbons in heterogeneous reservoirs: New theories, methods and applications* (Elsevier Science, 2015), and *Attenuation and dispersion of elastic waves in porous rocks. Mechanisms and models* (SEG publications, 2022) Carcione has been a member of the commission (GEV04) for evaluation of Italian research in the field of Earth Sciences (ANVUR) in the periods 2004-2010 and 2011-2014.

Carcione has coordinated many projects funded by the EU [the latter were GEMEX (<http://www.gemex-h2020.eu>) and ENOS (<http://www.enos-project.eu>)] and private companies and has organized two geophysical antarctic campaigns with the research vessels OGS/Explora (Italy) and Puerto-Deseado (Argentina). He is collaborating with many institutions and companies in the world, notably La Plata and Buenos Aires Universities (Argentina), UFBA (Brasil), Norsk Hydro, NTNU, Odin Petroleum and emgs SAS (Norway), PetroChina (China), Purdue and Princeton University, TriDekon Inc. (USA), Lausanne University (Switzerland), Perth University (Australia), CNRS (France), INGV (Rome, Catania), Rome University (Italy), and Qingdao and Nanjing University (China).

More details and pdf of papers in: <http://www.lucabaradello.it/carcione>
SEG wiki page: http://wiki.seg.org/wiki/Jose_M_Carcione