

Lynda Amichi  
R&D Associate  
Center for Nanophase Materials Sciences, Oak Ridge National Laboratory  
1 Bethel Valley Rd.  
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## Education

2018 Grenoble Alpes University, Ph.D., Applied Physics.  
2015 Sorbonne University, M.S., Applied Physics major in Materials Science.  
2013 Denis Diderot University, B.S., Physics.

## Professional Experience

Oct. 2024 - Present	R&D Associate, Center for Nanophase Materials Sciences, ORNL, Oak Ridge, TN (USA).
Jan. 2023 - Sep. 2024	Postdoctoral Research Associate, Center for Nanophase Materials Sciences, ORNL, Oak Ridge, TN (USA).
Oct. 2020 - Sep. 2022	Science Diplomat, Office for Science and Technology, Embassy of France, Houston, TX (USA).
Oct. 2015 - Dec. 2018	PhD Research Scientist, French commission of nuclear and alternative energies (CEA), Grenoble (France).
Jan.-Jul 2015	Master's 2 Research Internship, Mineralogy, Materials Science and Cosmo-Chemistry Institute (IMPMC), Paris (France), and Earth Life Science Institute (ELSI), Tokyo (Japan).
Apr.-Jul. 2014	Master's 1 Research internship, Materials and Quantum Phenomena Laboratory (MPQ), Paris (France).

## Research Expertise

- Transmission Electron Microscopy (TEM):
  - (Cryo) Electron tomography, 3D reconstruction, and visualization.
  - High-Resolution on Aberration-Corrected Scanning TEM imaging (*ac*-HRSTEM).
  - Off-axis electron holography using a single biprism for electrical field mapping.
  - *In-situ* heating experiments.
  - Energy Dispersive X-Ray Spectroscopy (EDX).
- Laser-Assisted Atom Probe Tomography (LA-APT).
- Focused Ion Beam and Scanning Electron Microscopy (FIB and SEM)
- Raman Spectroscopy.
- *In-situ* X-Ray absorption of the near edge structure (XANES) and extended fine structure (EXAFS) at high-pressure at synchrotron (ESRF, Grenoble).
- Analysis of the III-V semiconductors and beam sensitive materials: fuel cell and electrolyzer catalysts for hydrogen energy applications.
- Study of geological materials under extreme high-temperature and high-pressure conditions in a diamond anvil cell.

## **Main Scientific Communications**

- 2024 Oral presentation at the Microscopy and Microanalysis Conference, Cleveland (OH), USA.
- 2024 Oral presentation at the Materials Research Society Spring meeting, Seattle, USA.
- 2023 Oral presentation at the Microscopy and Microanalysis Conference, Minneapolis, USA.
- 2018 Two oral presentations at the International Microscopy Conference, Sydney, Australia.
- 2017 Oral presentation at the Microscopy of Semiconducting Materials, Oxford, UK.
- 2016 Poster presentation at the European Microscopy Congress, Lyon, France.

## **Professional Memberships**

- Microscopy Society of America (MSA)
- Microanalysis Society (MAS)
- The Electrochemical Society (ECS)

## **Languages**

- French, Mother language.
- English, Fluent.
- Spanish, Intermediate. Certification from the Pellissippi Community College, Knoxville, USA.

## **References**

- David Cullen, Senior R&D Scientist, ORNL. Postdoctoral advisor.  
Email: cullenda@ornl.gov.
- David Cooper, Senior Staff Scientist, CEA Grenoble. Ph.D. Supervisor.  
Email: david.cooper@cea.fr.
- Bettina Gardelles, Cultural Diplomat, Embassy of France. Co-worker.  
Email: bettina.gardelles@frenchculture.org.