# **Marie M. Romedenne**

Research and Development Staff  
Corrosion Science & Technology Group  
Materials Science & Technology Division  
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**Research Interest:**  
Solving structural and functional materials compatibility issues in extreme environments (T > 500 °C, liquid metals, hot gases, irradiation). Advancing safety and improving lifetime, efficient operation of advanced fission and fusion reactors and low-C fuel combustion engines and turbines

## **Education:**

2018 - Ph.D., Materials Science, Institut National Polytechnique de Toulouse / CEA-Saclay, France

2015 - M.S., Materials Science and Engineering, INP ENSIACET, France

## **Experience:**

November 2024-Present Joint Faculty Assistant Professor, Bredesen Center for Interdisciplinary Research and Graduate Education

April 2024 – Present - Research and Development Staff, Oak Ridge National Laboratory

May 2021 - April 2024 - Research and Development associate, Oak Ridge National Laboratory

January 2019 - May 2021 - Post-doctoral research associate, Oak Ridge National Laboratory

## **Professional Societies and Service:**

2019 - Present: Reviewer (Corrosion Science, Oxidation of Metals, Materials at High Temperatures, Materials and Corrosion, Metallurgical Research and Technology, Journal of Alloys and Compounds)

2021- Present Member of TMS International

2021-Present Member of Corrosion and Environmentally Effects Committee (CEEC)