

# JAVIER ELÍO

I am an engineer with 10+ years of research and teaching experience, with a solid background in statistics, spatial data analysis, and modelling. My main research area is environmental science, with a particular interest in natural hazards and climate change.



## EDUCATION

- 2013 • **Technical University of Madrid**  
Ph.D. in Environmental Science 📍 Madrid, Spain
- 2009 • **Technical University of Madrid**  
M.Sc. in Environmental Research, Modelling and Risk Assessment  
📍 Madrid, Spain
- 2005 • **Technical University of Madrid**  
M.Eng. in Mining Engineering. Specialization: Natural Resources and Environment Management  
📍 Madrid, Spain



## EMPLOYMENT

- 2020 • **Assistant Professor / Postdoc**  
Aalborg University, Technical Faculty of IT and Design, Department of Planning  
📍 Copenhagen, Denmark
- 2019 • **Assistant Professor**  
Western Norway University of Applied Sciences, Department of Safety, Chemistry and Biomedical laboratory sciences  
📍 Haugesund, Norway
- 2016 • **Postdoctoral Research Fellow**  
Trinity College Dublin, Geology 📍 Dublin, Ireland
- 2014 • **Research Assistant,**  
Technical University of Madrid, School of Mining and Energy Engineering  
📍 Madrid, Spain
- 2009 • **PhD Candidate**  
Fundación Ciudad de la Energía, CO2 Geological Storage  
📍 Ponferrada, Spain
- 2007 • **Research assistant**  
Technical University of Madrid, School of Mining and Energy Engineering  
📍 Madrid, Spain
- 2005 • **Tunnel Engineer**  
Obrascon Huarte Lain SA, AVE Colmenar-Soto del Real, Western tunnel (9.5km)  
📍 Madrid, Spain

## CONTACT INFO

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🐙 [github.com/javiereliomedina](https://github.com/javiereliomedina)

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For more information, please contact me via email.

## SKILLS

Experienced in statistics, spatial data analysis, and geostatistics.

Geographic information systems.

Highly skilled in R, R Markdown, blogdown, and bookdown.

## LANGUAGES

Spanish: mother tongue.

English: fluent. It has been my everyday work language since 2016.



## TEACHING EXPERIENCE

- 2019 ● **Regional Workshop on Development of Radon Maps and the Definition of Radon-Prone Areas**  
Lecturer, International Atomic Energy Agency 📍 Vilnius, Lithuania
- 2018 ● **Expert Mission to advice on radon detection, mapping and analysis**  
Lecturer, International Atomic Energy Agency 📍 Lima, Peru
- 2018 ● **Geological residential field-school.**  
Teaching assistant, 10 day geological residential field-school in SE Spain, Trinity College Dublin, School of Natural Sciences, Geology 📍 Dublin, Spain
- 2017 ● **GIS module in MSc Environmental Science.**  
Lecturer: A new indoor radon risk map of Ireland. Geology, School of Natural Sciences, Trinity College Dublin, School of Natural Sciences, Geology 📍 Dublin, Ireland
- 2016 ● **Geological residential field-school.**  
Teaching assistant, 10 day geological residential field-school in SE Spain, Trinity College Dublin, School of Natural Sciences, Geology 📍 Dublin, Spain



## SELECTED PUBLICATIONS

- 2020 ● **Application of airborne radiometric surveys for large-scale geogenic radon potential classification**  
Journal of the European Radon Association  
<http://dx.doi.org/10.35815/radon.v1.4358>
- 2019 ● **The first version of the Pan-European Indoor Radon Map**  
Natural Hazards and Earth System Sciences  
<http://dx.doi.org/10.5194/nhess-19-2451-2019>
- 2018 ● **Estimation of residential radon exposure and definition of Radon Priority Areas based on expected lung cancer incidence**  
Environment International  
<http://dx.doi.org/10.1016/j.envint.2018.02.025>
- 2017 ● **Logistic regression model for detecting radon prone areas in Ireland**  
Science of the Total Environment  
<http://dx.doi.org/10.1016/j.scitotenv.2017.05.071>
- **>50 scientific documents, 306 citations, h-index: 11**  
[scholar/javierelio](https://scholar.google.com/citations?user=javierelio)

## R PACKAGES

**dangeo**: package for accessing the Danish Map Supply Download via the kortforsyningen FTP. <https://github.com/javiereliomedina/dangeo.git>

**ggpyramid**: function for plotting population pyramids in {ggplot2}. <https://github.com/javiereliomedina/ggpyramid.git>

**ggrugby**: functions for plotting rugby events in {ggplot2}. <https://github.com/javiereliomedina/ggrugby.git>

**safecastR**: interacting with the Safecast API. <https://github.com/javiereliomedina/safecastR.git>

## SHINY APPS

Analyse migration data from Statistic Denmark. [https://javierelio.shinyapps.io/DK\\_migr\\_app/](https://javierelio.shinyapps.io/DK_migr_app/)

*This resume was made with the R package **pagedown**.*

*Last updated on 2021-10-21.*