

# JAVIER ELIO

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

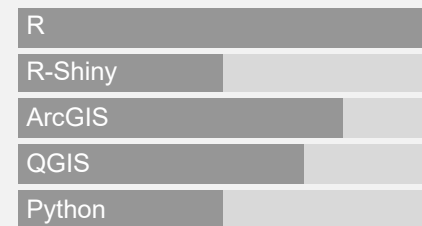
## EMPLOYMENT

- 2020 • **Assistant Professor / Postdoc**  
Aalborg University, Technical Faculty of IT and Design, Department of Planning  Copenhagen, DK
- 2019 • **Assistant Professor**  
Western Norway University of Applied Sciences, Department of Safety, Chemistry and Biomedical laboratory sciences  Haugesund, NO
- 2016 • **Postdoctoral Research Fellow**  
Trinity College Dublin, Geology  Dublin, IE
- 2014 • **Research Assistant**  
Technical University of Madrid, School of Mining and Energy Engineering  Madrid, ES
- 2009 • **PhD Candidate**  
Fundación Ciudad de la Energía, CO2 Geological Storage  Ponferrada, ES
- 2007 • **Research assistant**  
Technical University of Madrid, School of Mining and Energy Engineering  Madrid, ES
- 2005 • **Tunnel Engineer**  
Obrascon Huarte Lain SA, AVE Colmenar-Soto del Real, Western tunnel (9.5km)  Madrid, ES

## CONTACT INFO

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-  +45 9940 2529

## SOFTWARE



## LANGUAGES

**Spanish:** mother tongue.

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



## TRAINING AND TEACHING SKILLS

- 2022 ● **Geoinformatics: Spatial Data Science 1**  
A hands-on data science session in Python to train skills in data science-related tasks. Aalborg University  
📍 Copenhagen, DK
- 2019 ● **Regional Workshop on Development of Radon Maps and the Definition of Radon Prone Areas**  
Expert, International Atomic Energy Agency  
📍 Vilnius, LT
- 2018 ● **Expert Mission to advice on radon detection, mapping and analysis**  
Expert, International Atomic Energy Agency  
📍 Lima, PE
- 2018 ● **Geological residential field-school.**  
Teaching assistant, 10 day geological residential fieldschool in SE Spain, Trinity College Dublin, School of Natural Sciences, Geology  
📍 Dublin, IE
- 2017 ● **GIS module in MSc Environmental Science.**  
Practical exercise: a new indoor radon risk map of Ireland. Geology, School of Natural Sciences, Trinity College Dublin, School of Natural Sciences, Geology  
📍 Dublin, IE
- 2016 ● **Geological residential field-school.**  
Teaching assistant, 10 day geological residential fieldschool in SE Spain, Trinity College Dublin, School of Natural Sciences, Geology  
📍 Dublin, IE



## 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>

## SOFTWARE DEVELOPMENT

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

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

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

**safecastR**: R package for loading data from Safecast API, <https://github.com/javiereliomedina/safecastR.git>.

## APPS DEVELOPMENT

**CV\_app**: Shiny app for building data-driven CVs from Excel files, [https://javierelio.shinyapps.io/cv\\_app/](https://javierelio.shinyapps.io/cv_app/).

**DK\_migr**: Shiny app for analysing migration data from Statistic Denmark, [https://javierelio.shinyapps.io/DK\\_migr\\_app/](https://javierelio.shinyapps.io/DK_migr_app/).

*This resume was made with [Shiny](#).*

*Last updated on 2022-02-08.*