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### Technical skills:

- Atmospheric modelling: TAPM, AERMOD, CALPUFF, AUSTAL2000, CALROADS, SLAB, EDMS
- Indoor air modelling: CONTAM
- Environmental risk: ALOHA
- Air quality monitors
- Ion chromatography
- delignification and saccharification enzymatic methods and XAD/DAX resins
- GIS: ArcGIS and QGIS (basic), GDAL/OGR with bash, R and python
- Remote sensing: python, SNAP

|                |                                                               |
|----------------|---------------------------------------------------------------|
| 2015 - present | MPIC – Remote sensing, wildfire observation from UAS Research |
| 2011 - 2014    | UVW – Atmospheric modelling Industry                          |
| 2011 - 2012    | IP Tomar – Teaching in higher education                       |
| 2008 - 2009    | IP Coimbra – Teaching in higher education                     |
| 2007 - 2011    | U Aveiro – Atmospheric chemistry and air quality Research     |
| 2004 - 2007    | TU Vienna – Atmospheric chemistry and air quality Research    |



**R:** statistical testing, GIS: *raster*, *sp*, *rgeos*, *rgdal*, data analysis, visualization and modelling, literate programming: *knitr*



**Python:** analysis and visualization of large datasets: *scipy/numpy*, *matplotlib*, object-oriented programming, image processing: *imageio*, XML: *lxml*



**bash/zsh:** data manipulation: *grep*, *(g)awk*, *sed*, ..., GIS: *GDAL/OGR*, image & video: *Imagemagick*, *ffmpeg*



**Perl:** data manipulation.

L<sup>A</sup>T<sub>E</sub>X



first language



first language



very good oral and writing



good oral and writing



good oral and writing



regular



basic

### Research indicators:

- 1 Patent
- 37 works in peer-reviewed journals (5 as first author, 26 in Q1 journals)
- 3033 citations (Google scholar)
- h-index: 23 (Google scholar)
- i-10 index: 28 (Google scholar)
- Co-author of 1 book chapter
- 10 scientific-technical reports
- 49 posters and talks (13 as presenting or first author) (37 published in proceedings)
- 5 works at schools, workshops, seminars
- evaluation board of 1 PhD thesis and 4 MSc thesis
- supervision of 2 BSc final works

- PhD thesis:

<https://ria.ua.pt/bitstream/10773/704/1/2009000749.pdf>

<https://www.linkedin.com/in/alexandre-caseiro-90b1a635/>  
<https://github.com/AlexCaseiro1979>  
<https://anaconda.org/AlexCaseiro1979/>  
[https://www.researchgate.net/profile/Alexandre\\_Caseiro](https://www.researchgate.net/profile/Alexandre_Caseiro)  
<https://scholar.google.com/citations?user=IJSgFU4AAAAJ&hl=en>

In my free time, I enjoy reading, trail running, road and mountain cycling, mountaineering, skiing and rugby.

Extended version of this CV:

[https://github.com/AlexCaseiro1979/CV\\_AlexCaseiro/raw/master/CVAlexCaseiro\\_EN.pdf](https://github.com/AlexCaseiro1979/CV_AlexCaseiro/raw/master/CVAlexCaseiro_EN.pdf)

