

PRINCIPAL TECHNICAL SKILLS

Desktop GIS	ESRI Arc, QGIS, MapInfo, ArcView 2&3x, AutoCAD Map, SAGA.	19 years (cumulative)
Optical Remote Sensing	Erdas Imagine, PhotoScan, ER Mapper.	8 years (cumulative)
3D GIS & Geostatistics	ESRI Spatial, 3D and Geostatistical Analyst	15 years (cumulative)
Airborne LiDAR remote sensing	Airborne topographic LIDAR accuracy, spatial dependence of error, 3D feature classification (my own algorithms and software)	10 years (cumulative)
Web GIS	GeoServer / OpenLayers / QGIS Server / AziMap.	Fundamentals.
UAV remote sensing	UAV /UAS survey, photogrammetry, DSM modelling, GPS fusion.	3 years (cumulative)
Spatial Programming	Python – my own 3D feature recognition software* & algorithms	2 years (cumulative)
Terrestrial Laser Scanning	Terrestrial survey & 2.5D topographic, 3D urban modelling, 3D navigation apps, road marking recognition, Leica Cyclone & Cloudworx.	3 years (cumulative)
CAD / 3D Modeling	AutoCAD 3D, 3DS Max / 3D Viz, LandXplorer.	2 years (cumulative)
GPS survey	Survey, post-processing (Trimble & Leica), accuracy assessment, DEM modelling, photogrammetric data fusion.	3 years (cumulative)
Other languages	XHTML & CSS, Java, SQL, VB6	Fundamentals

EMPLOYMENT EXPERIENCE

- Oct 2015 – present** Owner Envo-Geo Environmental Geoinformatics www.envogeo.ie
- Aug 2012 – Sep 2015** Short-term contract Lecturer in GIS, Remote Sensing & 3D Geoinformatics, University of Glasgow
- Nov 2011 - April 2012** Science Foundation Ireland Research Fellow, UNSW Sydney, NSW, Australia
- Feb 2008 - July 2012** SFI StratAG Research Fellow, National Centre for Geocomputation, NUIM, Ireland
- Oct 2006 – July 2012** Part-time lecturer in MSc remote sensing, and MSc climate change (*GIS module*), NUIM, Ireland
- Jan 2005 - Jan 2008** PhD student, National Centre for Geocomputation, NUIM, Ireland
- 2004 – 2015** Occasional consultancy (private & public sector)
- July 2002 – Dec 2004** GIS Manager SWS Group, Cork (*GI project management on 11 large renewable energy projects*)
- Dec 2000 – July 2002** GIS Consultant Proteus Solutions, Cork (now 1Spatial Ireland – *roads and drainage projects*)
- May – Oct 2000** GIS Technician, RPS Environmental Sciences.

QUALIFICATIONS

	Awarded by National University of Ireland at...	Result	Award year
PhD in Geocomputation (<i>3D remote sensing, GIS, Geostatistics & Geomatics for sea-level rise models</i>)	NCG, NUI Maynooth	Passed - no corrections – extern Mike Goodchild	2008
Pgr. Diploma (<i>MSc - no thesis</i>). RS & GIS	NUI Maynooth	1H - placed 1 st in class	2000
MSc. Env. Res. Mgmt. (<i>thesis RS</i>)	NUI Dublin (UCD)	1H - placed 1 st in class	1999
M.Phil. Climatology (<i>Jet Stream & storm tracks</i>)	NUI Cork (UCC)	Passed - no corrections	1998
BA Geography (<i>primarily Physical & Environmental</i>)	NUI Cork (UCC)	Single Honours	1996.

RESEARCH PUBLICATIONS

Researchgate https://www.researchgate.net/profile/Seamus_Coveney

Google Scholar <https://scholar.google.es/citations?user=5022EW4AAAAJ&hl=en>

Dr. Seamus Coveney Nov, 2018.