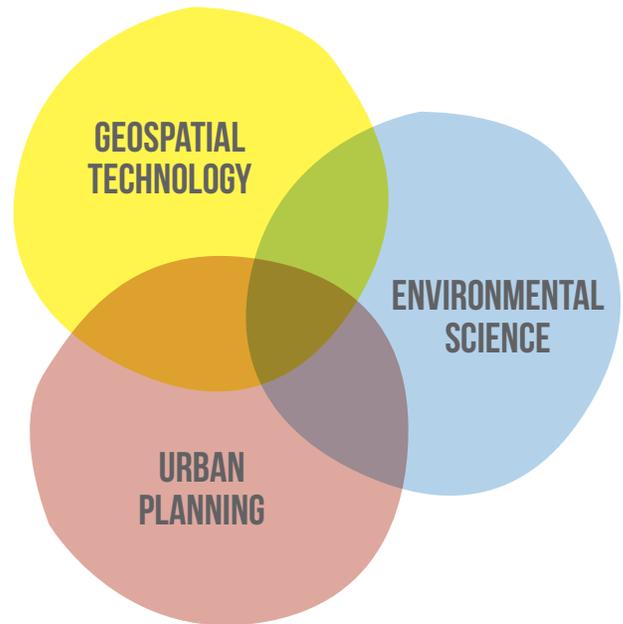


# DANBI J. LEE

## CURRICULUM VITAE

A self-driven and creative geospatial technologist, environmental scientist, and urban planner. Interested in leading collaborative team environments focussed on generating value to projects and teams through applied geospatial technology. Graphic design, UI/UX, and design thinking hobbyist. Traveller, culturalist.

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## CORE COMPETENCIES

10 years: Environmental sciences, urban planning, technical and scientific writing and editing, project management, public consultation and speaking, workshop facilitation, branding and graphic design.

5 years: Geospatial analysis, cartography, data visualization, urban hydrology, pluvial flood modeling, multi-spectral image processing, remote sensing, geodesign.

3 years: UI/UX design, product ownership, mobile data collection, LiDAR scanning and post-processing, 360 imagery, web-mapping.

## EDUCATION

MSc. Geomatics (with Distinction)  
Delft University of Technology  
Sept 2011 - Dec 2013

Certificate in Applied Digital Cartography and GIS  
Ryerson University  
Sept 2009 – Dec 2010

BSc. Environmental Sciences  
Natural Resources Management (with Honours)  
University of Guelph  
Sept 2002 – June 2006

## PUBLICATIONS

Chmielewski, S., Samulowska, M., Lupa, M., Lee, D., & Zagajewski, B. (2018). Citizen science and WebGIS for outdoor advertisement visual pollution assessment. *Computers, Environment and Urban Systems*, 67, 97-109.

Chmielewski, S., Lee, D.J., Tompalski, P., Chmielewski T.J. & Wężyk, P. (2015). Measuring visual pollution by outdoor advertisements in an urban street using intervisibility analysis and public surveys. *International Journal of GIS* 30(1).

Chmielewski, S & Lee, D.J. (2015). GIS-based 3D visibility modeling of outdoor advertising in urban areas. *SGEM2015 Conference Proceedings*, June 18-24, 2015, 2(2):923-930.

## LANGUAGES AND SOFTWARE

18 years  
Adobe InDesign, Illustrator, Photoshop, Adobe Acrobat Pro, Microsoft Word, Microsoft Excel, Microsoft PowerPoint (iOS and Windows)

2-5 years  
Quantum GIS, ArcGIS (ArcMap 10+)

0-2 years  
ProjectWise, AutoDesk ReCap, Leaflet, FME, SQL, Python, HTML, XML, MATLAB, Idrisi Selva, image classification algorithms (in Python)

Dabbling in  
AutoCad, Microstation, JavaScript, HTML, CSS

### RELEVANT EXPERIENCE

GIS Analyst  
Ove Arup & Partners  
April 2016 - Present

### HIGHLIGHTS

Cartography, geospatial mobile data collection, remote sensing (LiDAR, 360 imagery, aerial imagery), management, manipulation, visualization, and research and application of geospatial data and technology in infrastructure, transport planning, master planning, and buildings projects across the US and Europe.

UI/UX design (research and wireframing) for in-house digital products (web map applications and design tools) and product management. Continued interest in graphic design and innovations in digital cartography. Collaborative applied regional and global research with Arup's acoustics, lighting, buildings, transport planning, water engineering, and rail engineering disciplines.

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Planner  
Parks, Forestry & Recreation  
City of Toronto  
Oct 2014 - Nov 2015

Co-ordinated research and spatial analysis on downtown parks for the TOcore comprehensive planning study, in collaboration with City Planning, Transportation Services, and Toronto Water.

Designed and executed the first large-scale Park Asset Inventory and Use Survey using the Fulcrum mobile mapping solution which received wide interest internally. Developed field base map products using ArcGIS 10.

Advised on developing a spatial data infrastructure to facilitate cross-divisional data sharing on parks and assets. Lectured internally on geodesign practice in city building, and land use mapping methods for green infrastructure impact modeling.

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Geodesign Researcher  
VU University Amsterdam  
Feb 2014 - Sept 2014

Co-authored an introductory chapter (see Recent Publications, pg.1), provided critical editorial oversight and coordinated the overall publishing of the scientific book "Geodesign by Integrating Design and Geospatial Sciences" (Springer Publishers).

and

Co-ordinator  
Geodesign Summit Europe  
Jan 2013 - Sept 2014

Contributed to research proposals on urban environmental indicators and geodesign education. Worked with partners to implement the 2013 and 2014 Geodesign Summit Europe held in the Netherlands. Designed and organized an international geodesign workshop for Bachelor students.

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Researcher, Author  
Delft University of Technology  
Sept 2012 - Dec 2013

In collaboration with Hydrologic BV in the Netherlands, experimented with using Very High Resolution 4-band imagery of an urban area to map hydrologically relevant land use classes to improve pluvial flood modeling (see Recent Publications, pg.1). Raw imagery was processed using Python, and tested in a 2.5D flood model called PriceXD. The work was nominated for best Masters research in 2013.

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Urban Planner  
Office for Urbanism  
Oct 2007 - May 2011

Generated consensus-driven policy recommendations for building sustainable communities by conducting planning policy research and stakeholder interviews, writing technical reports and analyzing municipal strategic plans, official plans, urban design guidelines, and growth management strategies.

Worked directly with Partners to successfully design and implement dozens of public engagement strategies through producing communication material, managing volunteers, and liaising with City staff in Regina, Saskatoon, Mississauga, and Toronto.