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| **Wei Jing ANG**  E-mail: [weijing.ang710@gmail.com](mailto:weijing.ang710@gmail.com) | LinkedIn: [www.linkedin.com/in/wei-jing-ang](http://www.linkedin.com/in/wei-jing-ang)  Nationality: Singaporean | Country of Residence: Singapore | |
| **PROFILE SUMMARY** | |
| As a fresh graduate with a degree in Earth Science, I have two publications in well-known peer-reviewed journals and three years of research experience in geospatial analysis, remote sensing, hydrology, and geomorphology. I value continuous learning and my key experiences are:   |  |  |  | | --- | --- | --- | | EXPERIENCE | DESCRIPTION | DURATION | | Research 3 (under review) | Dams database and mapping | Aug 2022 – Present | | Research 2 (published) | Remote sensing and hydrology | Aug 2021 – Aug 2022 | | Teaching Assistant | MATLAB programming | Aug 2021 – Nov 2021 | | Student Assistant | ArcGIS lab manuals development | Jul 2021 – Aug 2022 | | Research 1 (published) | Bathymetry mapping | Aug 2020 – Aug 2021 | | Student Research | Urban greenery and place identity | Jan 2018 – Sep 2018 | | Geospatial Intern | Geospatial start-ups | Nov 2017 – Dec 2017 | | |
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| **EDUCATION** | |
| **Bachelor of Science in Environmental Earth Systems Science with Minor in Modern Languages (Japanese)** | *Nanyang Technological University, Singapore* Honours (Highest Distinction), GPA: 4.82/ 5.00, Specialisation: Geosciences Nanyang Scholarship • Dean’s List • NTU President Research Scholar | Aug 2019 – Jun 2023 |
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| **Singapore-Cambridge GCE Advanced Level** | *Dunman High School, Singapore*  8 Distinctions including H3 Geography • Academic Excellence Award | Jan 2013 – Dec 2018 |
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| **RESEARCH & PUBLICATION** | |
| **Dams in the Mekong: A comprehensive database, spatiotemporal distribution  and hydropower potentials** | *Nanyang Technological University* [Ang, W. J., Park, E., Tran D. D., Loc, H. H., & Pokhrel, Y. (2023). Dams in the Mekong: A comprehensive database, spatiotemporal distribution, and hydropower potentials. [Preprint under review by Earth System Science Data].](https://doi.org/10.5194/essd-2023-417)   * Integrated dam databases through GIS, R programming and Microsoft Excel * Conducted spatiotemporal analysis of the dams to determine future dam growth * Evaluated grid-based basin-wide hydropower potential using modelled discharge | Aug 2022 – Present |
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| **Geomorphic control on stage-area hysteresis in three of the largest floodplain lakes** | *Nanyang Technological University*  [Ang, W. J., Park, E., & Yang, X. (2022). Geomorphic control on stage-area hysteresis in three of the largest floodplain lakes. *Journal of Hydrology*, *614*, 128574.](https://doi.org/10.1016/j.jhydrol.2022.128574)   * Best Poster Award (Natural and Physical Sciences) and Journal Publication Award * Extracted the area of lakes from MODIS satellite imagery through ArcGIS * Analysed lake behaviour and quantified hysteresis through integration in MATLAB * Discussed the influence of geomorphology and lake-river connectivity on hysteresis | Aug 2021 – Aug 2022 |
| **Mapping floodplain bathymetry in the middle-lower Amazon River using Inundation Frequency** | *Nanyang Technological University*  [Ang, W. J., Park, E., & Alcantara, E. (2021). Mapping floodplain bathymetry in the middle-lower Amazon River using inundation frequency and field control. *Geomorphology*, *392*, 107937.](https://doi.org/10.1016/j.geomorph.2021.107937)   * Received the Research Excellence Award and Journal Publication Award * Derived the floodplain bathymetry of the Amazon River using ArcGIS * Analysed grain-size distribution and validated bathymetry through MATLAB | Aug 2020 – Aug 2021 |
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| **The role of skyrise greenery in sustainable living and place-making** |  *Dunman High School* • GCE A Level H3 Geography (distinction)   * Investigated the relationship between biophilic urbanism and place-making * Conducted independent fieldwork involving participant and site observations * Interviewed residents, a government personnel and an urban design professor | Jan 2018 – Sep 2018 |
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| **EXPERIENCE** | |
| **Volunteer Japanese Student Guide** | *Team Azuchi*   * Guided Japanese students to attractions, on company visits, and for school projects * Communicated with the students in Japanese to facilitate cultural exchange * Planned and improvised routes based on the students’ needs and time constraints | Jan 2019 – Present |
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| **Student Assistant (GIS)** | *Nanyang Technological University*   * Developed 6 detailed ArcGIS lab manuals and designed figures for teaching * Presented research experiences involving GIS to students as a guest speaker * Reviewed, edited, and reorganised a manuscript about hydrology | Jul 2021 – Aug 2022 |
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| **Teaching Assistant (MATLAB)** | *Nanyang Technological University*   * Prepared materials, graded assignments and taught in class to facilitate learning * Actively sought out and guided students who were struggling * Worked closely with the professor and other teaching assistants to run the course * Received positive feedback from students for patiently clearing their doubts | Aug 2021 – Nov 2021 |
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| **Publicity Director** | *NTU* *Japanese Appreciation Club*   * Collaborated with different departments to maintain a positive club image * Led the publicity team to ensure efficient internal and external communication by managing the social media sites and the mass email marketing platform | May 2020 – April 2021 |
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| **Geospatial Intern** | *Singapore Land Authority*   * Designed a mock website aimed at promoting local geospatial start-ups * Researched on trends and supporting policies in geospatial and innovative industries to propose strategies for stimulating the local geospatial industry * Part of the Ministry of Education Geography Talent Development Programme | Nov 2017 – Dec 2017 |
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| **Volunteer Project Leader** | *Make A Wish Foundation and Citi-YMCA Youth for Causes*   * Organised sales and a carnival to raise S$6000 and spread awareness for ill children * Led the planning team and student volunteer team to execute the activities * Negotiated with sponsors to secure deals, including a carnival and a free venue | Mar 2017 – Sep 2017 |