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| **Shan Ye** | **Address:** 1215 W. Dayton St, Madison, WI 53706 | | **Phone:** 734-548-0205 | |
| **Website:** *https://yeshancqcq.github.io/* | | **Email:** shan.ye@wisc.edu | |
| **EDUCATION** | | | | |
| * **University of Wisconsin-Madison**, Ph.D. in Geoscience | | | | *2018 - 2022* |
| * **University of Tulsa**, M.S. in Geoscience | | | | *2016 - 2018* |
| * **University of Michigan**, B.S. in Earth and Environmental Sciences | | | | *2013 - 2015* |
| * **The Pennsylvania State University**, GIScience | | | | *2011 - 2013* |
| **CURRENT PROJECTS** (EarthCube Research Assistant at UW-Madison) | | | | |
| **Sparrow Cyberinfrastructure – Cosmo Branch** | | *https://sparrow-data.org/* | | |
| * Developing the database for inter-institutional geochemical data sharing (Postgres/PostGIS) * Frontend functions, especially data-submission forms and interaction maps (JavaScript) * Backend functions including the data uploading pipeline (Python) | | | | |
| **GeoDeepDive** | | *https://geodeepdive.org/* | | |
| * Utilizing machine learning and natural language process to extract spatiotemporal data from published papers regarding ice-rafted debris in order to reconstruct the paleoclimate in the past 5 million years. | | | | |
| **Macrostrat** | | *https://macrostrat.org/* | | |
| * Validating the Cretaceous age model of the Macrostrat geospatial and sedimentology database * Compiling new polygons and stratigraphic columns of Cretaceous to enhance the spatial resolution * Wrote the instruction for the Macrostrat API | | | | |
| **TEACHING & LEADERSHIP** | | | | |
| * Temporary Instructor of GIS class, University of Tulsa | | | | *Spring 2018* |
| * President of AAPG University of Tulsa Chapter | | | | *2017 - 2018* |
| * Team member (geologist, GIS analyst) of Imperial Barrel Award competition | | | | *Spring 2017* |
| * Social science course assistant (TA) and research group facilitator, University of Michigan | | | | *2014 - 2015* |
| * GIS teaching intern, Penn State University | | | | *Fall 2012* |
| * (Co-)organizer of multiple workshops on spatial analysis, web mapping and cartographic design | | | | |
| **SKILLS** | | | | |
| * **Programming**: Python, R, HTML, CSS, JavaScript, C++, Java, SQL * **Software**: ArcGIS, QGIS, GeoDa, Petrel, Petra, ABAQUS, Illustrator, CorelDraw, Photoshop * **Specialties**: GIScience, climate, spatial analysis, cartography, geomechanics, numerical simulation * **Others**: WebGIS, outreach writing, teaching, UI design, audio and video editing, field work | | | | |
| **RELEVANT ONLINE & SHORT COURSES** | | **PROFESSIONAL ORGANIZATIONS** | | |
| * Data science and machine learning (JHU) * Algorithm and data structure (UC San Diego) * IsoAstro geochronology (UW-Madison/WWCC) * Geographic coordinates systems (Esri) * 3D analysis of surfaces and features (Esri) | | * American Association of Petroleum Geologists * American Association of Geographers * North American Cartographic Information Society * Society for Sedimentary Geology | | |