Seed Grants for Data Science
Submission for Spring 2021: Due: January 10, 2021

SDS Mission Statement: The School of Data Science (SDS) provides a practical learning and research environment that enables the application of analytics to enhance and impact social and economic conditions.

The School of Data Science (SDS) is now accepting research proposals for the Spring 2021 seed grants for data science funding cycle (There will also be another seed grant cycle for summer 2021, in which the proposal solicitation will be released on April 15, 2021). This seed grant opportunity provides up to $10,000 per award for UNC Charlotte and partnering faculty and researchers. A total funding of $20,000 and 2~4 awards are anticipated in this cycle. The School of Data Science is committed to identifying and supporting pre-competitive research proposals on interdisciplinary and transformative research ideas that demonstrate the potential to secure larger external grants in the near future. The previous winners of the SDS seed grants can be found at https://datascience.uncc.edu/research/seed-grants-data-science. Previous awardees are also encouraged to apply (e.g., for new grants or supplementary funding for an existing grant).

At the core of the School of Data Science lies an interdisciplinary nature for research and real-world applications. The purpose of this funding opportunity is aimed to support cross-disciplinary research projects, with the hope of fueling the collaborative spirit that already exists within the field of data science.

Proposals must be submitted by teams comprised primarily of UNC Charlotte researchers (The lead PI has to be UNC Charlotte faculty). Candidate teams will be multidisciplinary and draw personnel from at least two colleges, with at least one principal or co-principal researcher holding an affiliate or core faculty appointment within the School of Data Science. While collaborators external to UNC Charlotte may be included, the focus is on supporting the formation of new research teams based at UNC Charlotte.

Scope and Evaluation:

- Up to a maximum of $10,000 budget per proposal. Proposals with a smaller budget are encouraged;
- Proposals must be submitted by 10pm EST, January 10, 2021;
- The research committee of the SDS will evaluate the submitted proposals and select the best proposals for funding;
- Awardees will be announced by January 25, 2021;
- Initial Funding Disbursed to a PI’s home department: January 26, 2021; The PI’s home department is responsible for receiving and managing funds.
- For Spring grants, funding is required to be spent by June 30, 2021,
- Funds are allocated for a 5-month period maximum and a request for external funding are expected to be submitted within 12 months of a funding decision.
The SDS reserves the right to adjust the budget to reflect funds availability, research priorities of the SDS, and funding restrictions.

Additional Resources:
- Twitter Historical, Twitter’s Spritzer Stream, Sample COVID stream and other data sets.

Restrictions:
- Projects already externally funded or for which an external proposal is currently under review are not eligible.
- Projects that have already received internal funding are not eligible.
- A researcher cannot be a recipient of more than one SDS Research Grant per academic year.
- Continuation of an ongoing research project by the same or similar group of researchers will not be supported.
- In general, requests for additional funding of an existing seed grant will not be considered.
- Expenditures that are not allowed:
  - Expenditures generally made by departments and colleges (e.g., office supplies, travel to professional conferences, etc.)
  - Delivery of outreach programs or services
  - Requests for funds for meals and snacks
  - Publication charges

Criteria for Proposal Review:

1. Intellectual merits:
   1) Novel and transformative ideas that involve cross-college or interdisciplinary collaboration around data science;
   2) Quality and coherence of the research design and detailed plan of activities;

2. Broad impact of the proposed research

3. Potential for external grant funding
   1) Projects’ potential for leading to grant proposals that are more likely to be externally funded.
   2) Identified target funding agencies, programs, and dates for follow-on external funding application(s).
   3) Funding agencies or organizations of national or international significance will be given priority over regional ones.

4. Qualification of the project team
   1) All faculty eligible for UNC Charlotte Faculty Research Grants are eligible for this award.
2) Teams with at least two PI/Co-PIs affiliated with SDS.
3) At least two PIs from two different colleges. All faculty involved in the project must be listed as co-PIs or as consultants.

5. The results of previous projects funded by SDS seed grants (e.g., publications, grant proposals submitted and awarded)

6. Projects that best fit the research priorities of SDS, as outlined in the SDS mission statement (add a link to the related webpage).

Structure and Submission of Proposals:

Proposals (including the budget) should be named by the first and last names of the leading PI on a proposal (e.g., First name_last name_seed2021.pdf) and must be submitted as one single PDF file by email to Dr. Dongsong Zhang (Director of Research, SDS. Email: dzhang15@uncc.edu). Please include “Seed Grants for Data Science” in the subject line. To complete your proposal submission, please follow the instructions provided below.

The proposal must be clear, readily legible, and conform to the following requirements:

- Font size of 12 points
- Single-line spacing
- 1-inch margin on each side

To be considered for funding, the following must be included in your submission:

1. **Cover Sheet** (one page) The cover sheet contains the project title, abstract (200 words maximum), 3-5 descriptive keywords, PI and collaborator(s) name and contact information, total funds requested, projected start and end dates, indication of a new proposal or extensions of an existing SDS seed grant proposal.

2. **Project Description** (not to exceed 3 pages) The project description should address the following points:
   a) **Purpose, Significance, Planned Activities**: Provide a clear and concise explanation of (i) the target research problem of this funding request and its significance, (ii) the research goals/questions and the proposed research activities for which the funding is requested, (iii) how these activities will enhance your ability to apply for external funding as a larger project, and (iv) what data will be collected from the project, if any.
   b) **Overall Project description**: (i) the proposed research design and methodology, (ii) expected outcome of the project; (iii) potential novel research contributions of the proposed research; (iv) identified external funding agencies, programs, and tentative submission dates of follow-up grant proposals; and v) work plan and timeline of the proposed research.
   c) **Broad impact of the proposed research**: the potential broad impact of the proposed
project, as well as that of follow-up external grant proposals.

d) **Research Team:** Describe the qualifications, roles, and responsibilities of all research project team members, and what value collaboration adds to the project.

e) **Current and prior funding support:**
   1) What are the current externally funded projects of PIs and their focus;
   2) Have any PIs on this proposal received any prior seed grants from SDS before? If so, when and what were the outcomes (e.g., publications and grant proposals resulted from the grant(s))?

f) **External Funding:** Identify proposed/target channels and dates for follow-on external funding application(s).

3. **A two-page Biosketch (vita) for each participant which includes:**
   a) Education, including the dates when degrees were awarded;
   b) Current employment status;
   c) Three most relevant publications (to the current project);
   d) Most relevant experience (including but not limited to software programs, methods known, and training)
   e) Funding history: please provide a list of all funded projects (both internally and externally) received in the past three years. For each project, please list the project title, funding agency, project duration, roles (e.g., co-PI), and award amount.

4. **Budget and Justification:** Provide itemized budget and budget justification required by the project
   All of the items listed must be reasonable, necessary to accomplish project objectives, allowable in terms of the applicable federal cost principles, auditable, and incurred during the grant period. Charges to the project for items such as salaries, fringe benefits, travel, and contractual services must conform to the written policies and established practices of the University.

Acceptable budget items include faculty’s summer salary, RA support, dataset purchase expense, subject compensation, software, hardware, small pilot studies, etc. that are directly related to carrying out the proposed research.

The costs of project activities to be undertaken by a third-party contractor should be included in this category as a single line item charge. A complete itemization of the cost comprising the charge should be provided in an attachment. If there is more than one contractor, each must be budgeted separately on the form and must have an attached itemization.

5. **Data**
   What data will be collected and/or generated during the proposed study? Are you willing to share them with the school (Encouraged but not mandatory)?
The awardees are highly encouraged to share data (after de-identification of users) collected from the awarded projects with the School of Data Science, if possible, which will be incorporated into a secured data repository for potential future use for research or teaching by other SDS faculty. Benefits to sharing your data may include, but not limited to, the following:

- Extending the value, discoverability, and impact of your data by hosting it in a secured repository.
- Making your data/research projects citable.
- Facilitating scientific advancement and reproducible research by enabling other researchers to build upon your work.
- Ensuring long-term preservation and accessibility of your data through the repository’s archival curation.

The requests from UNCC faculty for access to any archived dataset will be reviewed and approved by the PI or co-PIs of the awarded project who created the original dataset(s) or by the School of Data Science upon agreement.

6. Bibliography (No more than 20)

Project Reports and Credit

Investigators are expected to provide a brief (2~3 pages) project report within one month after the ending date of the project term, including, but not limited to, the research activities conducted and the degree to which the project goals have been achieved. The report should be sent to dzhang15@uncc.edu. **Please acknowledge the support of the SDS seed grant(s) in the published papers resulting from the awarded projects.** Failure to submit the project report by the deadline may result in the ineligibility of PI/Co-PIs for applying for future SDS seed grants. An update of this report should be submitted when a related grant proposal is successfully submitted for external funding in the future.

External funding must be sought for the “overall project” for which seed funding was requested within the indicated time frame. It is expected that PIs will credit the SDS at the time of submission and approval of the proposal through NORM.

Should you have any questions about this seed funding opportunity, please contact Dongsong Zhang at dzhang15@uncc.edu.