

NSF International Research Experience for Students (IRES) - 2019



About me...

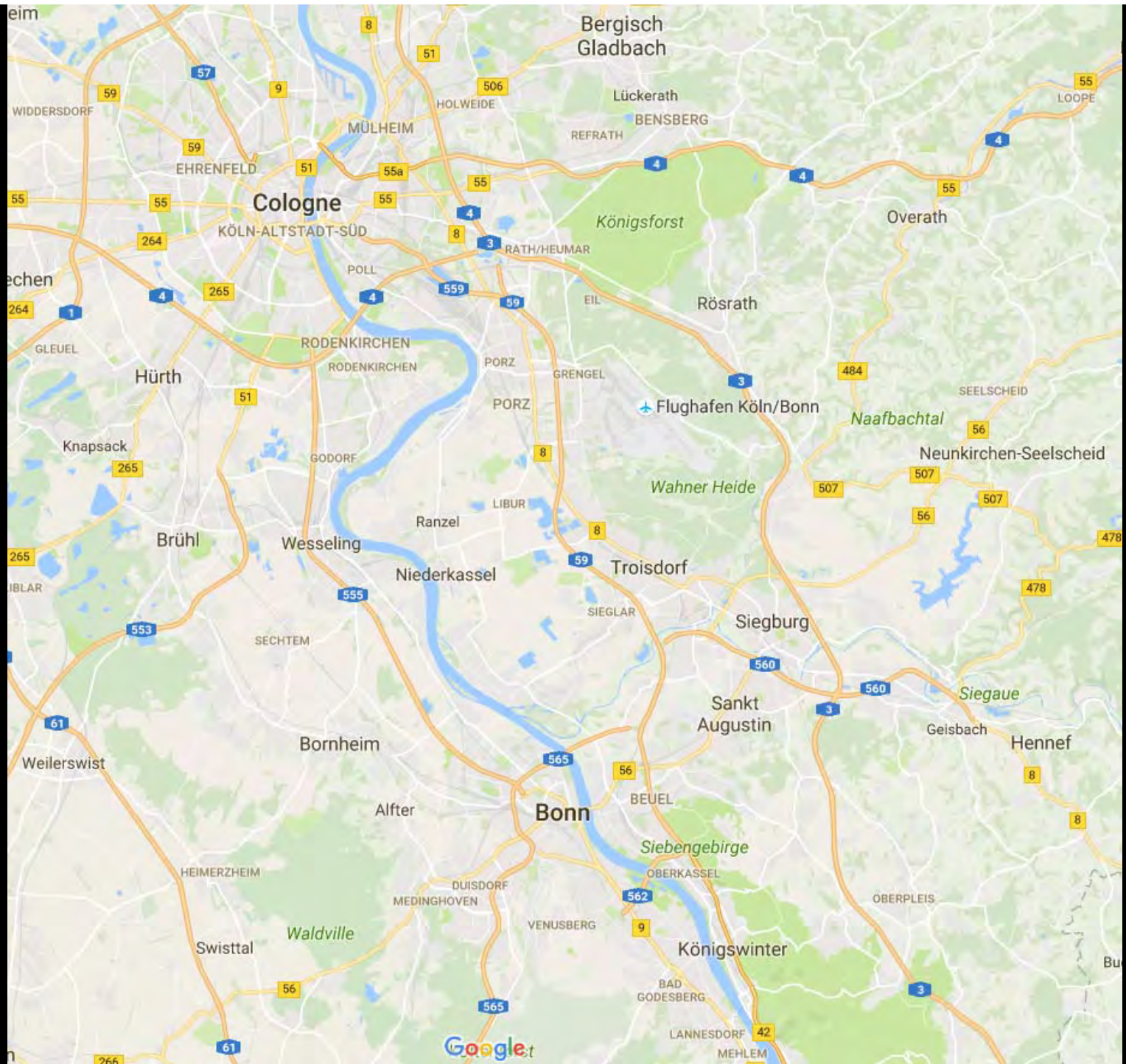
- How to refer to me:
 - “Professor Tomaszewski”
 - “Dr. Tomaszewski”
 - BT
- Ph.D. – Geography, Penn State
- 7 years private sector GIS
- Academic GIS - Geographic Information Science, Disaster Management
- <http://people.rit.edu/bmtski/>

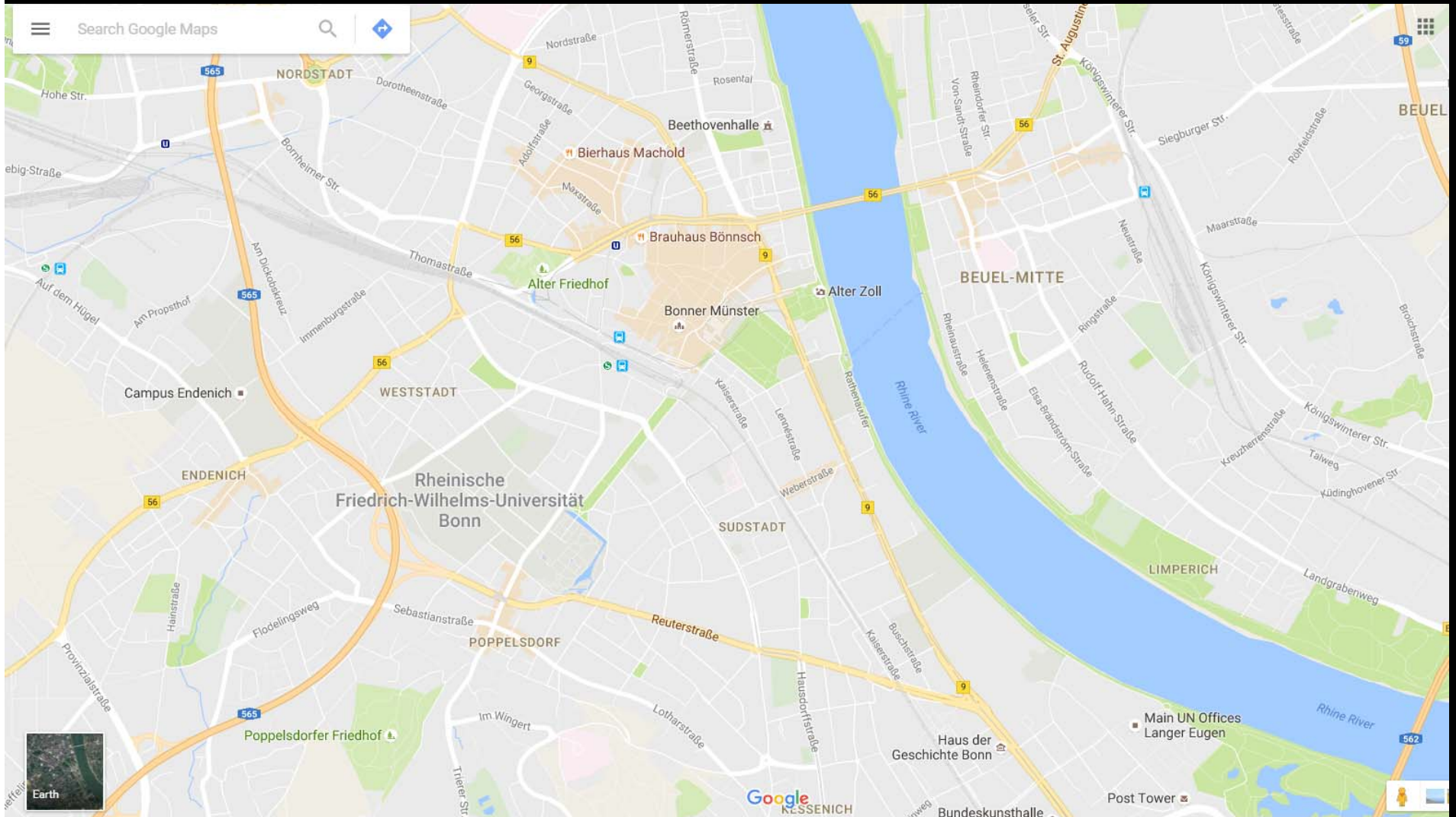


Where?



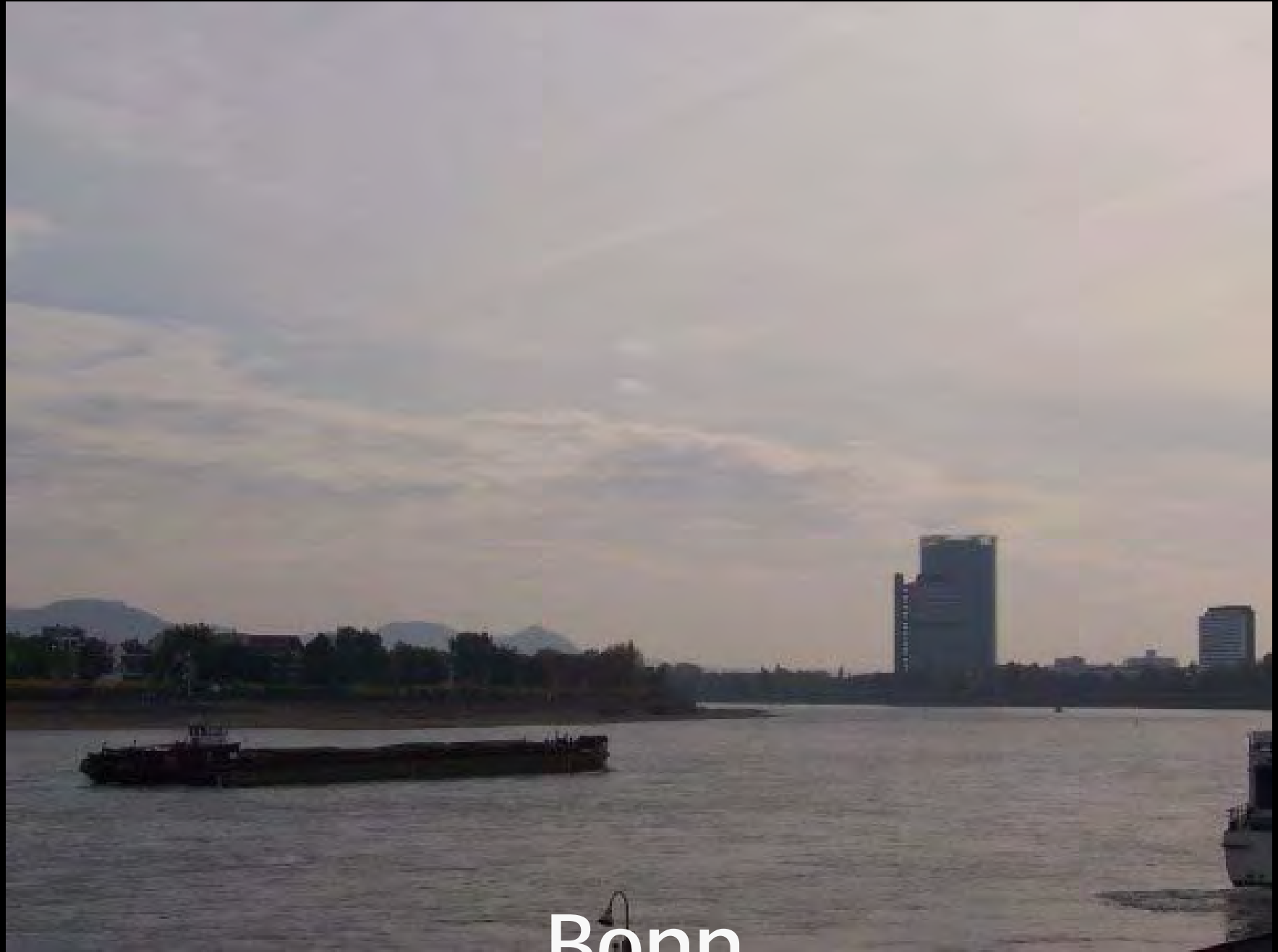
- Bonn
- West Germany - Former Capital







Bonn



Bonn

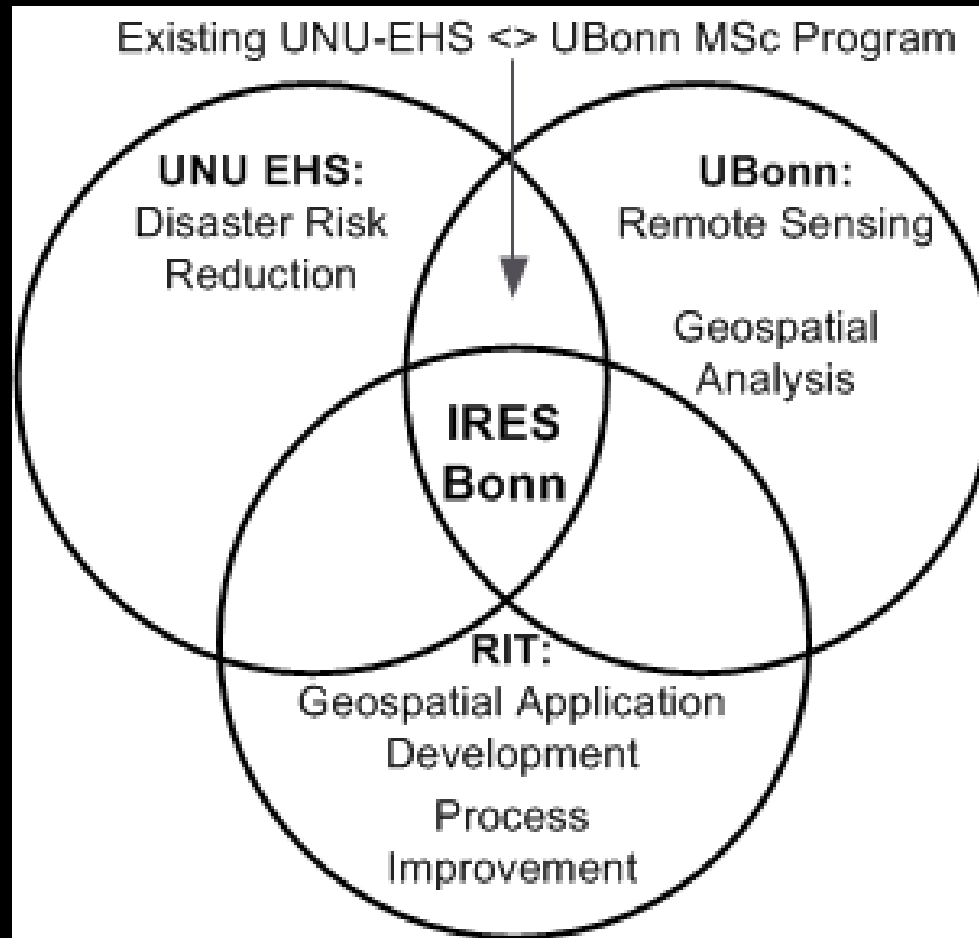


Bonn



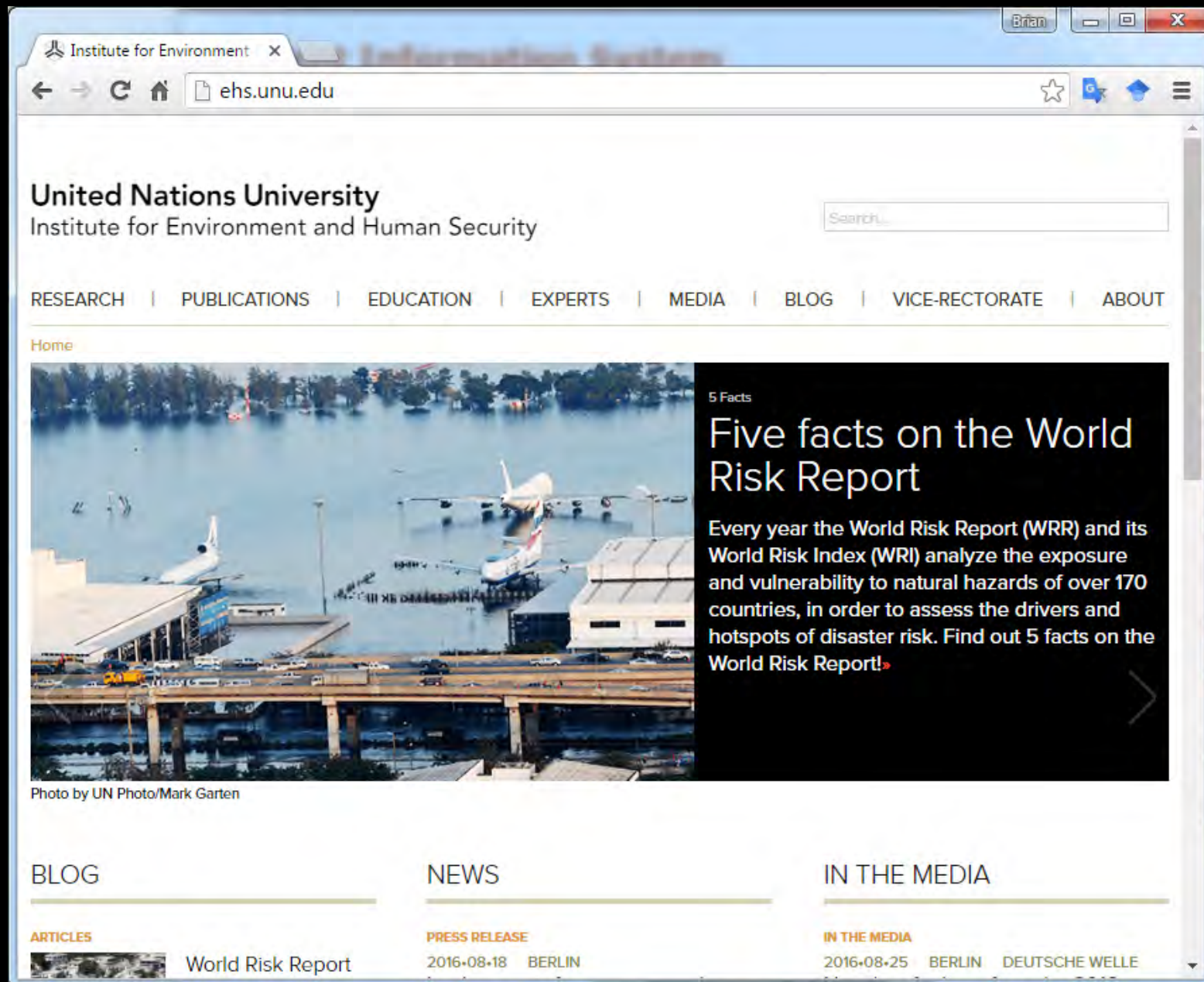
Germany!



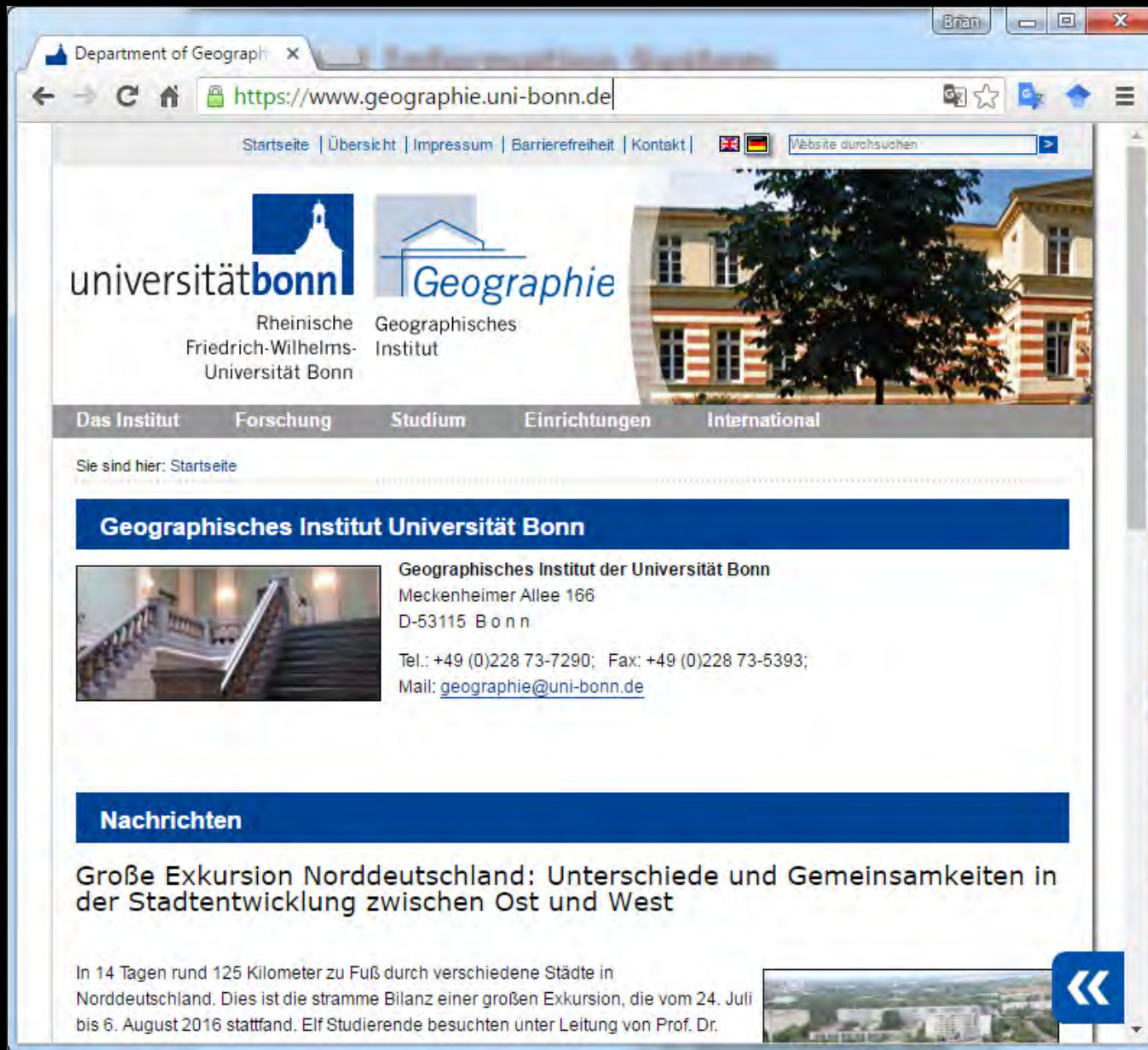


United Nations University Institute for Environment and Human Security (UNU-EHS)
and University of Bonn - Bonn, Germany

The Partners

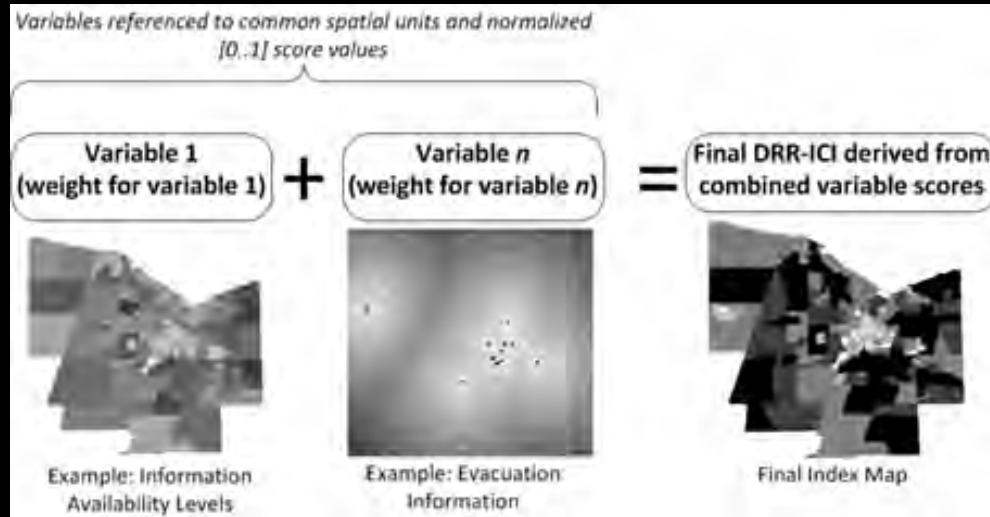


<http://ehs.unu.edu/>



<https://www.geographie.uni-bonn.de/>

What?



The research topic is to quantify disaster risk reduction geographic information capacities. The primary student research project is to create and rigorously evaluate a Disaster Risk Reduction - Information Capacity Index (DRR-ICI). A DRR-ICI currently does not exist. The scientific purpose of the DRR-ICI is to quantify and evaluate how disaster risk reduction geographic information capacities, such as information availability, scale and relevancy, vary within Germany and from country to country



Final Year - 2019

For the final year of this program, we will be conducting comparisons of geographic information capacity between different countries using preliminary variables developed from previous year cohorts. The metrics will be further refined in order to find statistical significance between variables. We also create interactive data visualization tools.

This experience would be an excellent match for Ph.D. students with research interests in Geographic Information Science, Data Science, Applied Statistics, Disaster Informatics, and related areas. Students participating in the program are expected to produce publications based on the research conducted during the summer

Who?



- 5 students
- GIS/Disaster Interest
- Graduate student



When?

- Classroom:
Spring 2019
ISTE 742 * required
- Misc. meetings in Spring 2018
- Summer 2019: 10 weeks in Germany
- Follow-up Activity – Fall Semester
after
 - Expected to publish

Why?

- Unique experience – international research
- Unique project work – make a difference
- Unique location – Germany
- International professional networking (NSF, United Nations)

Requirements

1. US-citizen
2. Enrollment in ISTE 742 – Introduction to GIS (Spring 2019)
3. Grade point average (GPA) of 3.0 or higher
4. Currently enrolled as a full-time student
5. Physically present on RIT campus for Spring 2019 (no remote co-op participation)
6. Must commit to being in Germany for 10 weeks during Summer 2019
7. Must be an RIT student in the summer 2019

FYIs

- Fully funded – airfare, housing, stipend
- Do not need to speak German (helpful, but not a requirement)

Selection Criteria

1. Have passport at time of application due date (1 November 2018)
2. Interest in mapping/disasters (GIS Minor)
3. Interest in data science/analytics
4. Interest in humanitarian/development issues for education/career
5. Strength of statement and references

Application

Applications due **1 November 2018**

Application has two parts:

Part 1: Complete the RIT compass application available at:

<http://tinyurl.com/nsfiresde>

Part 2: please email directly to Brian Tomaszewski (bmtski@rit.edu) the following:

- A 1000 word statement of interest as to why you wish to conduct research in Germany and how you see the experience benefiting your educational experience and long-term career prospects in science, technology or engineering fields.
- Two letters of recommendation: one from your primary faculty advisor and another from a faculty member that can speak on your maturity and capability for foreign travel and intellectual capacity for conducting research.
- Contact information (name, phone number, email) for your primary faculty advisor and one other faculty member who can serve as a reference for you.

Questions/Applications

- Dr. Brian Tomaszewski, GOL-2673
- **Email:** bmtski@rit.edu
- **Fall 2018 Office Hours:**
Tuesday/Thursday 11am-noon

Thank you!