

**Carlos D. Soto López**  
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**I. Academic Degrees**

- |      |   |
|------|---|
| 2018 | PhD in Hydrology and Water Resources,<br>The University of Arizona, Tucson AZ |
| 2008 | MS in Hydrology and Water Resources<br>The University of Arizona, Tucson AZ   |
| 2002 | BS in Environmental Sciences<br>Universidad de Puerto Rico, Rio Piedras PR    |

**II. Academic Positions**

**A. Teaching/Research Positions**

- |                |   |
|----------------|---|
| 2022 - Present | Assistant Teaching Professor<br>Bowling Green State University, Bowling Green<br>OH |
| 2017 - 2022    | Adjunct Teaching Professor<br>Bowling Green State University, Bowling Green<br>OH   |
| 2012           | Graduate Research Assistant<br>The University of Arizona, Tucson AZ                 |
| 2007 - 2011    | Teaching Assistant<br>The University of Arizona, Tucson AZ                          |
| 2005 - 2006    | Graduate Research Assistant<br>The University of Arizona, Tucson AZ                 |

**B. Administrative Positions**

**III. Non-academic Positions**

- |             |   |
|-------------|---|
| 2013 - 2014 | Senior Hydrogeologist<br>HydroGeoSense, Tucson AZ                   |
| 2003 - 2005 | GIS Project Manager<br>Geographic Mapping Technologies, San Juan PR |

2000 - 2003

GIS Analyst  
Geographic Mapping Technologies, San Juan PR

#### **IV. Teaching Experiences**

##### **A. Undergraduate Courses (number of individual sections taught)**

GEOL 1000 - Introduction to Geology (1)

ENVS 1010 - Introduction to Environmental Studies (10)

SEES 3000 - Geospatial Science (5)

ENVS 3100 - Environmental Field and Lab Methods (6)

SEES 3230 - Introduction to Hydrology (2)

##### **B. Undergraduate-Graduate Courses**

##### **C. Graduate Courses**

##### **D. Other Teaching Courses**

##### **E. Thesis and Dissertation Students Courses**

#### **V. Curriculum Development**

2022-23 Coordinated service-learning field activities for the 3 Fall and 3 Spring sections ENVS 1010 in the Spring 2023 and Fall 2023.

2022-23 Revised and added SEES 3000, Lectures, and Laboratory Activities (Fall 2022 and Spring 2023)

2022-23 Revised and added SEES 3000 Reading Assignments and Online Quizzes (Fall 2022 and Spring 23)

2021-23 Revised and modified ENVS 3100 Laboratory Activities (Fall 2021, Fall 2022 and Fall 2023)

#### **VI. Professional Development**

2023 Understanding and (Potentially) Mitigating the Impacts of Tile Drainage. Online Webinar (March 22, 2023)

2022-2023 Mentee, under the College of Arts and Sciences Faculty Mentoring Program (AY 2022-2023) with Dr Andrew Kear and Dr Mathew Partin as mentors.

2022 A&S Introduction to Accessible Content Creation, BGSU's Center to Faculty Excellence Brown Bag Speaker Series (11/3/2022 12-1pm). How to create content that is accessible for all students utilizing ALI and Canvas for courses.

2018-2019 SciFri Lunches

## VII. Academic Advising

2023 Hailey Hendrix: Honors Tutorial for ENVS 1010 Spring 2023: plan and coordinate an additional special Honors Tutorial project for the student that satisfies one or more of the Honors College's three identified learning outcomes (critical thinking, written and oral communication, and integrative thinking)

## VIII. Research Interests

Surface hydrology

Sub-surface hydrology

Stream-aquifer interactions

Water Quality

Hydro geochemistry

Field and laboratory research

Geographic Information Systems (GIS)

Global Positioning Systems (GPS)

## IX. Research Projects and Grants

### A. Funded Grants

2022-2024 Vázquez-Ortega, A., **Soto C.D. (Co-PI)**, McCluney K., and others. Assessing Dissolved Reactive Phosphorus Sequestration onto Farm Soils Amended with Lake Erie Dredged Sediments: Implications on Hydrological Budgets and HAB Occurrences. Ohio Department of Higher Education Harmful Algal Bloom Research Initiative **\$603,992** Project period 8/2022-12/2024.

**B. Pending Grants**

**C. Submitted Grants**

2022 Vázquez-Ortega, A., **Soto C.D. (Co-PI)**, McCluney K., and others. Assessing Dissolved Reactive Phosphorus Sequestration onto Farm Soils Amended with Lake Erie Dredged Sediments: Implications on Hydrological Budgets and HAB Occurrences. Ohio Department of Higher Education Harmful Algal Bloom Research Initiative Submitted Summer 2022 **\$761,933**.

**X. Publications or Equivalencies**

**A. Publications**

**1. Books**

**2. Journal Articles**

**a. Refereed Articles**

2012 Meixner, T., Brooks, P., Hogan, J., **Soto, C.** and Simpson, S. (2012), Carbon and Nitrogen Export from Semiarid Uplands to Perennial Rivers: Connections and Missing Links, San Pedro River, Arizona, USA. *Geography Compass*, 6: 546-559. doi: 10.1111/j.1749-8198.2012.00510.x.

2011 **Soto-López, C. D.**, Meixner, T., & Ferré, T. P. A. (2011). Effects of measurement resolution on the analysis of temperature time series for stream-aquifer flux estimation. *Water Resources Research*, 47(12). doi:10.1029/2011WR010834.

**3. Editorships of Journals**

**4. Book Reviews**

**5. Abstracts**

2012 Meixner, T., **Soto, C. D.**, Ajami, H., Turner, D., Richter, H., & Dominguez, F. (2012, December). Water Presence in an Arid and Semi-arid River: Pattern, causes, mechanisms and change. In AGU Fall Meeting Abstracts

2010 **Soto, C. D.**, Meixner, T., & Ferre, T. A. (2010, December). Effects of measurement resolution and random measurement error on temperature-based estimates of vertical stream-aquifer flux. In AGU Fall Meeting Abstracts.

2007 **Soto-López, C. D., & Meixner, T.** (2007, December). Subsurface Stream Processes and Spatiotemporal Controls on Nutrient Cycling Upper San Pedro River, AZ. In AGU Fall Meeting Abstracts.

## **6. Reports**

### **a. Published**

### **b. Unpublished**

## **XI. Papers Read to Professional Societies**

## **XII. Service**

### **A. School**

2023-Present Recommendation letter writer (Edward Zalar, Clover Nesler)

2023 Peer teaching evaluation and report of Dr Margaret Yacobucci (Spring 2023)

2023 Member of SEES Succession Committee (Spring 2023)

2022-Present ENVS1010 Service-Learning Coordinator.

2022-Present SEES School Faculty Citizen.

2022-2023 Recruitment of Graduate Students (MS Geology) to fill a Research Assistant Position, related to the HABRI Grant (Fall 2022-Present).

2022-Present Environmental Sciences Major Committee Member.

2022-Present Merit Review Committee Member. Member of the merit review committee tasked with evaluating SEES peers merit packets and submitting a score to the Merit committee Chair.

2022-Present SEES Environmental Sciences Cluster committee member, meet several times during the year to fill out reports (SAC).

2022 SEES Faculty Representative for Preview Day (10/29/2022).

2022 Served as the SEES unit liaison for BGSU's Center for Faculty Excellence Brown Back Speaker Series on the Introduction to Accessible Content Creation. Specifically, I attended the presentation and then brought the knowledge back to unit by sharing information and content with the rest of the SEES faculty verbally on our faculty meeting of (11/18/2022) and via email (11/19/2022).

### **B. College**

2023 Distinguished Teaching Award Committee recommendation letter writer: In charge of compiling the findings of the 2023 DTA committee and writer of School of Arts and Sciences Distinguished Teaching Award 2023 Selection letter to Phil Dickinson (A&S Associate Dean) (Apr 20, 2023)

2022 Honors College 13th annual Collective Dialogues, Session planner and facilitator (November 2nd, 2022)

2022-2024 BGSU A&S Distinguished Teaching Award Committee member: Member of the committee responsible for selecting BGSU Distinguished Teaching Award with a three-year appointment (AY 2022-2024)

### **C. University**

2023 Honors College, Introduction to Honors Program Collective Dialogues, Session planner and facilitator: Planned for and submitted a discussion session titled "Water Scarcity" for the Honors College Collective Dialogues, directed for the incoming class of freshmen at BGSU's Honors College. (8/17/2023).

2022 Honors College 13<sup>th</sup> Annual Collective Dialogues, Session planner and facilitator: Planned for and submitted a discussion session titled "Water Scarcity" for the Honors College Collective Dialogues. For this activity, I curated a set of

readings and videos so that students could prepare for a guided discussion around the topic of Water Scarcity (11/2/2022).

#### **D. Professional**

2022-Present

Member of the Lake Erie and Aquatic Research Network (LEARN). A newly formed group of field stations, scientific laboratories and diverse researchers within Ohio working together to promote collaborative research, education, and networking to address the challenges and opportunities facing Ohio's freshwater resources. Part of H2Ohio in the Ohio Sea Grant Learn Program.

2022

Elsevier Academic Press survey on Hydrology courses: Participated on a survey directed to faculty members that teach courses related to hydrology (Fall 2022).

2015

Reviewer for Journal of Hydrology

#### **E. Community**

2023

Co-Presenter with Angélica Vázquez at Wood County Soil Water Conservation District's "From the Farm Event" titled Beneficial Use of Dredge Material (Feb 23, 2023).

2012

Co-Presenter with Angélica Vázquez for the Wood County Soil Water Conservation District's board. Stakeholder education and requesting of collaboration (10/21/2022).

2018

CRIM Elementary School - Present to 1st and 2nd graders an activity on water quality (Fall 2018).

### **XIII. Research or Professional Consultantships**

### **XIV. Membership in Professional Organizations**

### **XV. Honors and Awards**

#### **A. Membership in Honor Societies**

#### **B. Awards**

2012-2013

Louise Foucar Marshall Foundation Fellow, University of Arizona.

2009

Honorable Mention, Ford Foundation Pre-Doctoral Fellowship, University of Arizona.

- 2009 Excellence Performance at the Student Interface as a Teacher Assistant, College of Engineering University of Arizona.
- 2008 Honorable Mention, Ford Foundation Pre-Doctoral Fellowship, University of Arizona.
- 2006-2010 National Science Foundation Graduate Research Fellow, University of Arizona.
- 2005 Ivanhoe Fellowship, University of Arizona.
- 2005 Honorable Mention, National Science Foundation Graduate Research Fellowship, University of Arizona.
- 2003 Summer Research Scholar, Summer Research Institute, University of Arizona.

Last updated on *Monday Sept 4, 2023*