

David A. GALAMBOS

PERSONAL DATA

CURRENT ADDRESS: 300 N College St, Northfield, MN, USA
PERMANENT ADDRESS: 418 E Brewster St, Appleton, WI, USA
PHONE: (608) 556-3943
EMAIL: galambosd@carleton.edu

EDUCATION

Expected JUNE 2020 Bachelor of Arts in BIOLOGY, **Carleton College**, Northfield, MN
GPA: 3.896/4.0
RELEVANT COURSEWORK: Genetics, Cell Biology, Organic Chemistry I, Organic Chemistry II,
Computational Biology, Math of Computer Science, Data Structures,
Algorithms

RESEARCH EXPERIENCE

Current MAR. 2018	CALDERONE LAB , Carleton College, Northfield, MN <i>Research Assistant</i> Performed HPLC assays of C-domain function in the non-ribosomal peptide synthetase <i>AmbE</i> . Developed methods to characterize <i>AmbE</i> reactivity using LC-MS. Expressed mutated <i>AmbE</i> constructs in <i>E. coli</i> and tested enzyme activity using radioactive assays.
MARCH 2017- SEPT. 2018	ANDERSON LAB , Carleton College, Northfield, MN <i>Research Assistant</i> Designed a metagenomic study to infer syntrophic nutrient cycling relationships at deep-sea vents. Improved quality of existing metagenomic data. Presented research progress at bi-weekly lab meetings.
NOV. 2016- MAR. 2017	IMPACT at MAYO CLINIC , Rochester, MN <i>Student Researcher</i> Conducted research of primary literature to elucidate novel hypothesis about impact of obesity and Type 2 diabetes on pancreatic cancer. Presented proposal at IMPACT Symposium at Mayo Clinic in Rochester, MN.

WORK EXPERIENCE

MARCH 2018- JUNE 2018	DEPARTMENT OF CHEMISTRY , Carleton College <i>Organic Chemistry Tutor</i> Facilitated problem set help sessions (2x/week). Guided students in developing effective exam study strategies. Assessed patterns in student questions to report common conceptual misunderstandings to faculty.
--------------------------	---

JAN. 2018- MARCH 2018	DEPARTMENT OF BIOLOGY, Carleton College <i>BIO125 Lab Teaching Assistant</i> Assisted with setup and maintenance of lab materials and equipment. Answered student questions about lab procedures and associated biological concepts. Graded and provided feedback for notebooks, quizzes and post-laboratory assignments.
Current SEPT. 2017	WRITING CENTER, Carleton College <i>Writing Assistant</i> Provide individualized one-on-one writing consultations for a first-year seminar of 14 students. Prepare consultation material and advice consistent with professor's expectations and teaching style. Offer weekly appointments to general student population.

LAB TECHNIQUES

WET LAB: Miniprep; Heterologous over-expression in *E. coli*; protein purification; SDS-PAGE and DNA gels; Southern Blot; PCR; optical microscopy; ¹H-NMR, UV-visible, IR spectroscopy; GC-MS, LC-MS; HPLC (high-performance liquid chromatography), FPLC (fast protein liquid chromatography)

COMPUTATIONAL: Comprehensive metagenomic pipeline (genome assembly, mapping, coverage analysis, annotation, binning), metatranscriptome analysis, sequence alignment, phylogenetic trees

COMPUTER SKILLS

SOFTWARE: [anvi'o](#); RStudio; Word, Excel, PowerPoint; Prezi; Adobe Illustrator; MNovo; End-note, Mendeley, Zotero

TOOLS: Git, BLAST, MUSCLE, KEGG, Pfam, RAXML

LANGUAGES/PACKAGES: Python (incl. matplotlib, [seaborn](#)), R (incl. [tidyverse](#)), C, Java, \LaTeX

PRESENTATIONS

Galambos, D. A.; Reveillaud, J.; Anderson, R.E.; Huber, J. A. "Archaeal Metabolic Profiles at Deep-sea Hydrothermal Vents in the Mid-Cayman Rise." 2017 AMERICAN GEOPHYSICAL UNION (AGU) FALL MEETING, December 11-15, 2017; New Orleans, LA.

Galambos, D. A.; Reveillaud, J.; Anderson, R.E.; Huber, J. A. "Archaeal Metabolic Profiles at Deep-sea Hydrothermal Vents in the Mid-Cayman Rise." 2017 CARLETON COLLEGE SUMMER RESEARCH SYMPOSIUM, October 20, 2017; Northfield, MN.

Lauriello, A. F.; **Galambos, D. A.**; Greengo, S. D.; Kennicott, H. R. "Obesity-Induced T-cell Polarization in Pancreatic Cancer Leads to Immunosuppression and Reduces the Efficacy of Immunotherapy." 2017 MAYO CLINIC IMPACT SYMPOSIUM, March 18, 2017; Rochester, MN.

ACTIVITIES

<i>Current</i> SEPT. 2016	CLUB TENNIS, Carleton College <i>Team Captain</i> Lead team practice (3x/week). Build team competitive experience by hosting and attending tournaments. Coach team members during tournament match play.
OCT. 2017- JUNE 2018	EMERGENCY DEPARTMENT, Northfield Hospital & Clinics <i>Volunteer</i> Cleaned rooms, restock supplies, and courier lab specimens. Served food and drink to patients. Shadowed physicians and nurses.
OCT. 2016- OCT. 2017	NORTHFIELD INITIATIVE, Carleton College <i>Team Member</i> Lead civic education sessions for voters about structure and function of local government. Organized mayoral candidate debates. Maintained non-partisan website with candidate platforms and voter information.

AWARDS

Carleton College DEAN'S LIST (2017)
NATIONAL MERIT SCHOLAR (2016)
NATIONAL AP SCHOLAR (2016)
CRAFTSMAN SHIELD AWARD for Outstanding Senior (Appleton West High School, 2016)

LANGUAGES

FRENCH (proficient), RUSSIAN (fluent), HUNGARIAN (fluent)