

**BIOGRAPHICAL SKETCH**

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NAME: Franziska Katherine Bishop

eRA COMMONS USER NAME (credential, e.g., agency login): BISHOP.FRANZISKA

POSITION TITLE: Staff Scientist

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
University of Colorado, Boulder, CO	BA	05/2003	Environmental Studies
Colorado State University, Fort Collins, CO	MS	12/2006	Human Nutrition and Food Science
University of Colorado, Denver, CO	CPHS	05/2009	Certificate in Public Health Sciences
Certification Board for Diabetes Care and Education	CDCES	11/2016	Diabetes Care and Education Specialist

**A. Personal Statement**

I am a Staff Scientist with more than 15 years of experience supporting clinical and translational research in type 1 diabetes, with a focus on implementation of early diabetes technology, remote patient monitoring, and multidisciplinary care workflows. My work centers on operationalizing research protocols within clinical care settings, coordinating multi-site studies, and supporting data collection, analysis, and dissemination for investigator-initiated and collaborative research programs.

I currently support the Teamwork, Targets, Technology, and Tight Glycemia (4T) program, a precision digital health initiative focused on improving outcomes in newly diagnosed type 1 diabetes. In this role, I contribute to study management, implementation of CGM and automated insulin delivery workflows, remote patient monitoring infrastructure, and evaluation of clinical, behavioral, and equity-related outcomes. I also collaborate closely with investigators, certified diabetes care and education specialists (CDCES), biostatisticians, and clinical teams to ensure protocol fidelity, feasibility, and sustainability. I also support the administration of the NIH-funded DiabDocs K12 Physician-Scientist Training Program, which focuses on developing early-career investigators in diabetes research.

My experience includes coordination of NIH-funded studies, preparation of manuscripts and abstracts, and support of dissemination activities across national and international scientific meetings. I bring a strong background in diabetes education, implementation workflows, and research operations that support the successful execution and evaluation of complex, team-based diabetes research programs.

## B. Positions, Scientific Appointments, and Honors

- 2006-2011 Study Coordinator, Barbara Davis Center for Childhood Diabetes, University of Colorado Anschutz Medical Campus, Aurora, CO.
- 2011-2019 Senior Project Manager, Barbara Davis Center for Childhood Diabetes, University of Colorado Anschutz Medical Campus, Aurora, CO.
- 2020-2021 Clinical Research Manager, Stanford University, Department of Pediatrics, Division of Pediatric Endocrinology, Stanford, CA.
- 2021-present Staff Scientist, Stanford University, Department of Pediatrics, Division of Pediatric Endocrinology, Stanford, CA

## C. Contributions to Science

### Implementation of early diabetes technology and remote monitoring in new-onset type 1 diabetes

I have contributed to research evaluating early initiation of diabetes technology, including continuous glucose monitoring, automated insulin delivery, remote patient monitoring, and physical activity education within structured new-onset care pathways. My work supports study implementation, workflow development, and evaluation of clinical outcomes within the 4T program, with an emphasis on equitable access, feasibility, sustainability, and translation into standard care.

- a. Prahalad P, Scheinker D, Desai M, Ding VY, **Bishop FK**, Lee MY, Ferstad J, Zaharieva DP, Addala A, Johari R, Hood K, Maahs DM. Equitable implementation of a precision digital health program for glucose management in individuals with newly diagnosed type 1 diabetes. *Nat Med.* 2024 Jul;30(7):2067-2075. doi: 10.1038/s41591-024-02975-y. Epub 2024 May 3. PMID: 38702523.
- b. Zaharieva DP, Ritter V, **Bishop FK**, Desai M, Addala A, Prahalad P, Riddell MC, Maahs DM; 4T Study Group. Physical Activity Is Associated With Improved Glycemic Outcomes in Newly Diagnosed Youth With Type 1 Diabetes: 4T Exercise Program. *Diabetes Care.* 2025 Jul 1:dc250765. doi: 10.2337/dc25-0765. Epub ahead of print. PMID: 40590663.
- c. Addala A, Ding V, Zaharieva DP, **Bishop FK**, Adams AS, King AC, Johari R, Scheinker D, Hood KK, Desai M, Maahs DM, Prahalad P; Teamwork, Targets, Technology, and Tight Control (4T) Study Group. Disparities in Hemoglobin A1c Levels in the First Year After Diagnosis Among Youths With Type 1 Diabetes Offered Continuous Glucose Monitoring. *JAMA New Open.* 2023 Apr 3;6(4):e238881. doi: 10.1001/jamanetworkopen.2023.8881. PMID: 37074715; PMCID: PMC10116368.
- d. Advancements and future directions in the teamwork, targets, technology, and tight control – the 4T study” improving clinical outcomes in newly diagnoses pediatric type 1 diabetes. Zaharieva DP, **Bishop FK**, Maahs DM; 4T study research team. *Curr Opin Pediatr.* 2022 Aug 1;34(4):423-429. doi: 10.1097/MOP.0000000000001140. PMID: 35836400.

### Operationalizing equitable, scalable diabetes care models

I have supported studies examining how structured workflows, Certified Diabetes Care and Education Specialist-led processes, and remote monitoring infrastructure can improve access to and sustainability of diabetes care. This work includes evaluation of billing models, care team roles, and implementation strategies across diverse clinical settings.

- a. Leverenz JC, Horton L, Conrad B, Lin S, Chmielewski A, **Bishop FK**, Quaid M, Prahalad P, Maahs DM.

Insulin dose adjustment policy for certified diabetes care and education specialists: Safe and effective. *J Clin Transl Endocrinol.* 2025 Nov 1;42:100423. doi: 10.1016/j.jcte.2025.100423. PMID: 41283065; PMCID: PMC12639378.

- b. **Franziska K. Bishop**, Annette Chmielewski, Jeannine Leverenz, Shannon Lin, Barry Conrad, Anjali Martinez-Singh, Laura Pike, David Scheinker, Priya Prahalad, David M. Maahs. Building a Diabetes Educator Program for Remote Patient Monitoring Billing. *Journal of Diabetes Science and Technology.* 2025;0(0). doi:10.1177/19322968241308920.
- c. Jeannine C. Leverenz, Brianna Leverenz, Priya Prahalad, **Franziska K. Bishop**, Piper Sagan, Anjali Martinez-Singh, Barry Conrad, Annette Chmielewski, Julianne Senaldi, David Scheinker, David M. Maahs; Role and Perspective of Certified Diabetes Care and Education Specialists in the Development of the 4T Program. *Diabetes Spectr* 2024; ds230010. January 19, 2024.
- d. Kim GYK, Rostosky R, **Bishop FK**, Watson K, Prahalad P, Vaidya A, Lee S, Diana A, Beacock C, Chu B, Yadav G, Rochford K, Carter C, Ferstad JO, Pang E, Kurtzig J, Arbiter B, Look H, Johari R, Maahs DM, Scheinker D. The adaptation of a single institution diabetes care platform into a nationally available turnkey solution. *NPJ Digit Med.* 2024 Nov 6;7(1):311. doi: 10.1038/s41746-024-01319-x. PMID: 39506045; PMCID: PMC11542048.

### **Behavioral, lifestyle, and psychosocial aspects of type 1 diabetes care**

My earlier and ongoing work includes coordination and analysis of studies focused on physical activity, dietary patterns, and psychosocial outcomes in youth with type 1 diabetes. This research informs patient-centered care models and supports integration of behavioral and lifestyle considerations into clinical research and practice.

#### **Selected publications:**

- a. Tanenbaum ML, Pasmooij MB, Tam R, Basina M, Hughes MS, **Bishop FK**, Maahs DM. Moving the Goalposts: Do Adults with Type 1 Diabetes Want Time in Tight Range (TITR)? *Endocr Pract.* 2025 Mar 19:S1530-891X(25)00074-6. doi: 10.1016/j.eprac.2025.03.006. Epub ahead of print. PMID: 40562358.
- b. Addala A, Ritter V, Schneider-Utaka AK, Alamarie SA, Pang E, Balistreri I, Shaw B, **Bishop FK**, Zaharieva DP, Prahalad P, Desai M, Maahs DM, Hood KK; 4T Team. Psychosocial outcomes in a diverse sample of youth and their families who initiated continuous glucose monitoring within the first year of type 1 diabetes diagnosis. *Diabetes Obes Metab.* 2025 Feb;27(2):933-943. doi: 10.1111/dom.16093. Epub 2024 Nov 27. PMID: 39604317; PMCID: PMC11700754.
- c. Mayer-Davis EJ, Maahs DM, Seid M, Crandell J, **Bishop FK**, Driscoll KA, Hunter CM, Kichler JC, Standiford D, Thomas JM; FLEX Study Group. Efficacy of the Flexible Lifestyles Empowering Change intervention on metabolic and psychosocial outcomes in adolescents with type 1 diabetes (FLEX): a randomized controlled trial. *Lancet Child Adolesc Health.* 2018 Sep;2(9):635-646. doi: 10.1016/S2352-4642(18)30208-6. Epub 2018 Jul 30.
- d. **Franziska K Bishop**, David M Maahs, Gail Spiegel, Darcy Owen, Georgeanna J Klingensmith, Andrey Bortsov, Joan Thomas, Elizabeth Mayer-Davis. The Carbohydrate Counting in Adolescents with Type 1 Diabetes (CCAT) Study. *Diabetes Spectrum* 2009 22: 56-62.

#### **Complete List of Published Work in MyBibliography:**

<https://pubmed.ncbi.nlm.nih.gov/?term=franziska+bishop&sort=date>