

Curriculum Vitae

Ayse G. Zengul

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RESEARCH INTEREST

Technology use in health coaching for the treatment and management of chronic diseases, developing nutrition guidelines for people with physical disabilities, and developing personalized nutrition recommendation systems for vulnerable populations.

EDUCATION

Ph.D., Nutrition Sciences The University of Alabama at Birmingham	2019 -Present
Masters of Science, Nutrition Sciences, The University of Alabama at Birmingham	2017 - 2019
Bachelors of Science, International Studies The University of Alabama at Birmingham • Second Major: English with Literature Concentration	2008 - 2013

HONORS AND AWARDS

Howerde E. Sauberlich Endowed Award for excellence in nutrition science research	2019
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FELLOWSHIP

Blazer Graduate Research Fellowship	2019-2020
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PUBLICATIONS

Zengul, A. Demark-Wahnefried, W., Barnes, S., Morrow, C., Bertrand, B., Berryhill, T., Fruge, A. 2018, Associations between Dietary Fiber, the Fecal Microbiota and Estrogen Metabolism in Postmenopausal Women with Breast Cancer, *Nutrition and Cancer Journal* (Accepted for publication on 03/12/2020)

Zengul, A. G., Hoover, S. E., & Chandler-Laney, P. C. (2020). Secondary analysis of gut hormone data from children with and without in utero exposure to gestational diabetes: Differences in the associations among ghrelin, GLP-1, and insulin secretion. *Pediatric Obesity*, e12757.

Zengul, F.D., **Zengul, A.G.**, Mugavero, M., Oner, N., Ozaydin, B., Delen, D., Willig, J.H., Kennedy, K.C. and Cimino, J., (2021). A critical analysis of COVID-19 research literature:

Text mining approach. *Intelligence-based medicine*, p.100036.

Thirumalai, M., **Zengul, A. G.**, & Evans, E. (2021). Challenges and Lessons Learned From a Telehealth Community Paramedicine Program for the Prevention of Hypoglycemia: Pre-Post Pilot Feasibility Study. *JMIR Diabetes*, 6(3), e2694

Evans E, **Zengul A**, Hall A, Qu H, Willig A, Cherrington A, Thirumalai M. Disability-Inclusive Diabetes Self-management Telehealth Program: Protocol for a Pilot and Feasibility Study. *JMIR Res Protoc* 2021;10(9):e31689

Zengul A, Evans E, Hall A, Qu H, Willig A, Cherrington A, Thirumalai M. Telehealth Behavioral Intervention for Diabetes Management in Adults with Physical Disabilities: Intervention Fidelity Protocol for a Randomized Controlled Trial. *JMIR Res Protoc* 2021;10(9):e31695

Zengul, A. G., Zengul, F. D., Ozaydin, B., Oner, N., & Fiveash, J. B. (2021). Identifying Research Themes and Trends in the top 20 Cancer Journals through Textual Analysis. *Journal of Cancer Policy*, 100313.

Under Review

Zengul, A. G., Evans, E., Cherrington, A., Mehta, T., Thirumalai, M. Self-management Interventions for People with Physical Disabilities and Chronic Conditions: A Scoping Review. *American Journal of Physical Medicine & Rehabilitation*.

In Progress

Evans, E., **Zengul, A. G.**, Cherrington, A., Willig, A. L., Knight, A., Mehta, T., Thirumalai, M. Perspective, Needs, and Barriers to Self-management of Disabilities and Chronic Conditions from stakeholders.

Zengul, A.G., Evans, E.J., Thirumalai, M., A Review of Technology use in Health Coaching for Glycemic Control in People with Diabetes Mellitus

PRESENTATIONS

Zengul, A., Tucker, A., Chandler-Laney, C., Dysregulation among GLP-1, Ghrelin and C-Peptide among Children Exposed to Gestational Diabetes in Utero. Oral presentation, Annual UAB Diabetes Research Day, Birmingham, AL, May 7, 2019.

Zengul, A. Demark-Wahnefried, W., Barnes, S., Morrow, C., Bertrand, B., Berryhill, T., Fruge, A. 2018, Associations between Dietary Fiber, the Fecal Microbiota and Estrogen Metabolism in Postmenopausal Women with Breast Cancer. CaRES Poster Session, Birmingham, AL, 2018

Zengul, A.G., Hill, J.O., Thirumalai, M. 2020. A Personalized Nutrition Recommendation

Expert System (PNRES) for People with Disabilities. GRP-2020 NORC/DNS Trainee Retreat Poster Session, UAB, Birmingham, AL, 2020.

Zengul, F.D., **Zengul, A.G.**, Mugavero, M., Oner, N., Ozaydin, B., Delen, D., Willigh J.H., Kennedy, K., Cimino, J.J.(2020). A Critical Analysis of COVID-19 Research Literature: Text Mining Approach, has been accepted for Pre-International Conference on Information Systems Artificial Intelligence (Pre-ICIS AI) workshop, Sunday, December 13 from 9am to 2pm ET - SIG AIAA - Artificial Intelligence: Theory, Applications and Implications, Virtual.

Zengul, F.D., **Zengul, A.G.**, Mugavero, M., Oner, N., Ozaydin, B., Delen, D., Willigh J.H., Kennedy, K., Cimino, J.J.(A Critical Analysis of COVID-19 Research Literature: Text Mining Approach. The University of Alabama at Birmingham, Informatics Institute, PowerTalk Seminars, December 4, 2020, 10:00-11:00 AM.

INTERNSHIPS

Cancer Research Experiences for Students (CaRES)

Summer 2018

The University of Alabama at Birmingham

Attended seminars and other educational activities. Developed and presented a research poster in the 2018 CaRES Poster Session. Prepared a manuscript titled: Associations between Dietary Fiber, the Fecal Microbiota, and Estrogen Metabolism in Postmenopausal Women with Breast Cancer.