Kimiya Taji

University of California, Davis

(805)558-9344

[khtaji@ucdavis.edu](mailto:khtaji@ucdavis.edu)

**uc\_Eating: An unambiguous characterization process for eating**

Kimiya Taji1, Dr. Matthew Lange1

Department of Food Science and Technology, University of Southern California, Davis1

The study of food consumption patterns, the “what, where, when, and why” of eating is an area of inquiry vastly investigated by multiple disciplines including anthropologists, biologists, nutritionists, food scientists, public health specialists, sociologists, and several other allied science disciplines, each with their own approaches, tools, and methods. The collection of eating behavior data transpires for a number of reasons including, health information, consumer research, and to reduce illness related to diet. Such data provides a multitude of advantages in advancing knowledge and the personalization of health. uc\_Eating seeks to create a standardized unambiguous characterization nomenclature for computing over human food habits and eating occurrences. Each ontology seeking to create a standardized system for modeling various processes. The creation of an eating ontology integrated with globally interconnected computational languages about food, sustainability, and health enables assessment, identification, and characterization of eating patterns from multiple sources. Simultaneously, providing an infrastructure for annotating the relationships between food consumption and eating behaviors while creating a foundation for the characterization of human eating processes. uc\_Eating will transform the science of eating and the paralleled decision-making process around what, when, where, and why humans eat.