

EXPERT'S PROFILE

Name of Grantee	GERARD G. DUMANCAS, PhD
Area of Expertise	Analytical Chemistry (Chemometrics) and Statistical Genetics
Inclusive Dates of Contract as BSP Awardee	Short-Term Program Phase I: January 2-9, 2017 Phase II: May 15 – 28, 2017 Phase III: May 29 – August 4, 2017
Host Institutions	University of the Philippines - Visayas and University of San Agustin



EDUCATIONAL BACKGROUND

Doctor of Philosophy in Analytical Chemistry, Oklahoma State University, 2012
Bachelor of Science in Chemistry, University of the Philippines Visayas, 2005

PROFESSIONAL AND RESEARCH EXPERIENCE

- 2016-present **Assistant Professor of Chemistry**
Louisiana State University - Alexandria Alexandria, LA USA,
Alexandria, LA USA
- June-July 2016 **Visiting Scientist (Chemometrician)**
GlaxoSmithKline
King of Prussia, PA USA
- August 2014-May 2016 **Instructor of Chemistry**
Oklahoma Baptist University
Shawnee, OK USA
- June 2012 – August 2014 **Research Fellow**
Arthritis and Clinical Immunology Research Program
Oklahoma Medical Research Foundation
- June 2007 – May 2012 **Graduate Research and Teaching Assistant**
Department of Chemistry
Oklahoma State University

TO BE ACCOMPLISHED AS BSP AWARDEE:

University of the Philippines Visayas (UPV)

1. Conduct training on the basics of chemometrics;
2. Act as an advisor to undergraduate students who are writing their thesis proposals;
3. Conduct training on the basics of statistical genetics;
4. Develop research proposals for submission to funding agencies on the following areas:
 - a. Use of data analytics for an integrated healthcare system that can organize and analyze patient's data for accurate health evaluation;

- b. Development of a direct spectrophotometric and chemometric method for the quantification of food dye in various food products; and
5. Act as resource person in the revision of the Master of Chemistry curriculum and institution of an MS in Chemistry program.

University of San Agustin (USA)

1. Conduct training on the basics of chemometrics;
2. Act as an advisor to undergraduate students who are writing their thesis proposals;
3. Conduct training on the basics of statistical genetics; and
4. Planning of research projects related to bioanalytical chemistry (Chemometrics) and bioinformatics through a collaborative research and teaching between LSUA, UPV and USA, Iloilo City.