Michele Lee Thorne

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**CHARITIES**

Care 4 the Caregivers- Co-Founder/Executive Director 2020-present

Arizona Speller’s Academy- Co-Founder/ Treasurer 2023-present

**BUSINESSES**

Know It All Books 2020-present

D.A.M.E.S. Differently Abled Mothers Empowerment Society 2018-present

**EDUCATION**

**Nonprofit Management Certification 2022**

Arizona State University, Tempe, AZ

**Master of Biology 2012**

Arizona State University, Tempe, AZ

Thesis: How does nutrient limitation affect expression of assimilatory genes within a photosynthetic microbial mat community in Yellowstone National Park?

**Bachelor of Science- Molecular Biosciences and Biotechnology 2004**

Arizona State University, Tempe, AZ

**TEACHING EXPERINCE**

**Adjunct professor, Department of Biology 2013-2015**

**South Mountain Community College, Tempe, AZ**

BIO 156- Introductory Biology for Allied Health (3 sections)

BIO 107- Introduction to Biotechnology (1 section)

**Teaching Associate, Department of Biology 2011-2012**

**Arizona State University, Tempe, AZ**

BIO 340- General Genetics (2 sections)

BIO 181- General Biology Lab (1 section)

**Instructor of 6th grade afterschool program Spring 2011**

**Kyrene Middle School, Ahwatukee, AZ**

**CURRICULUM DEVELOPMENT**

**Arizona State University- BIO 181 lab, Tempe AZ Summer 2012**

Worked with lab manager to make lab experiments more inquiry based learning. New scientific terms were introduced each week, building on prior terms so that at the semesters end students could create their own lab protocols and execute them effectively.

These pedagogical changes resulted in a revamped laboratory manual, quiz banks and PowerPoint presentations being used to teach over 4,000 students to date.

**Kyrene Middle School afterschool program, Tempe, AZ Fall 2010**

Created a 12-week after school program focusing on eutrophication- how do different ecosystems cope with additional nutrients. Course included short term and long term labs, individualized experiments, inquiry based learning and ended with lab presentations from each group.

**RESEARCH EXPERIENCE**

Translational Genomics Institute, Phoenix, AZ 2004-2009

Organized the acquisition of samples, created the workflows, executed the assays, analysis of samples and traveled to meet collaborators to discuss the progress multiple Genome Wide Association Studies.

* 5 million dollar 2,000 sample project for the Colon Cancer Family Registry (CCFR) on the Illumina 1M Chips with call rates of 99 percent
* 2 million dollar 2,000 sample project for a Prostate Cancer study conducted on the Affymetrix 500K SNP chips with call rates of 97 percent
* 1 million dollar 1,200 sample project for the National Institute of Diabetes and Digestive and Kidney Diseases studying Diabetes in the Native American Pima Indians on the Affymetrix 100K SNP chips with a 99 percent call rate

Trained 50% of my fellow staff members on Affymetrix and Illumina protocols

Mastered programming of protocols on Beckman Coulter’s Biomek FX in order to increase throughput of the Affymetrix 100K Assay

**PUBLICATIONS**

**Journal Articles (Peer-Reviewed)**

Hanson RI, Bogardus C, Duggan D, Kobes S, Knowlton M, Infante AM, Marovich L, Benitez D, Baier LJ, Knowler WC. (2007) A search for variants associated with young-onset type 2 diabetes in American Indians in a 100K genotyping array. *Diabetes* (56): 3045-52

Duggan D, Zheng SI, Knowlton M, Benitez D, Dimitrov I, Wiklund F, Robbins C, Isaacs SD, Cheng Y, Li G, Sun J, Chang BL, Marovich L, Wiley KE, Balter K, Stattin P, Adami HO, Gielzak M, Yan G, Sauvageot J, Liu W, Kim JW, Bleecker ER, Meyers DA, Trock BJ, Partin AW, Walsh PC, Isaacs WB, Gronberg H, Xu J, Carpten JD (2007) Two genome-wide association studies or aggressive prostate cancer implicate putative prostate tumor suppressor gene DAB21P. *J Natl Cancer Inst* (99): 1836-44

**CONFERENCE PRESENTATIONS**

High Risk Perinatal Program 2024

“Critical Care for Caregivers”

Arizona Autism Coalition Conference 2024

“Breaking Through the Storm and Rediscovering

Your Inner Self”

Caregiver Conference- Keynote Speaker 2023

“The Importance of Caring for the Caregiver”

Arizona Autism Coalition Conference 2020

“Avoiding Caregiver Burnout: Sustaining a Lifetime of Care”

ASTA Conference on Translating Science in the 21st Century 2011

“Corn Chips and the Gulf Dead Zone”

Science Foundation of Arizona Grand Challenge Summit 2011

“Panel discussion of Kyrene Stem Outreach Program”

**FELLOWSHIPS/GRANTS**

Science Foundation of Arizona 2009-2011

$60,000 award

Lewis and Clark Fund for Exploration and Field Research in Astrobiology 2010

American Philosophical Society and NASA Astrobiology Institute

$4,000 award

**LEADERSHIP & SERVICE**

Co-Founder/Executive Director

Care 4 the Caregivers 2020-present

Co-Founder/Treasurer 2023-present

Arizona Spellers’ Academy

Parent Representative ALTCS Advisory Council 2020-2023

Raising Special Kids Parent Mentor 2020-2022

Board member

Autism Society of Greater Phoenix 2019-2020

**ADDITIONAL TRAINING**

Certified Autism Specialist 2019

Pilot Parent Partners in Leadership Graduate 2020

Flourish Families Specialist 2020

Stepping Stones Triple P Facilitator 2020

Protective Factors Framework Facilitator 2020