

OLUWADAMILOLA TEMILADE OLADERU

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EDUCATION

Yale University, New Haven – CT 06520
Candidate for B.S. in Molecular Biochemistry & Biophysics
B.A. in African Studies
Expected Graduation: May 2011

Peddie School, Hightstown – NJ 08520
Graduated with Cum Laude
Sept. 2003 – May 2007

RESEARCH EXPERIENCE

12/2007-Present Yale University
Chemistry Department
Theoretical Chemistry & Biophysical Research under Victor Batista Ph.D.
Topic of Interest: Investigating computational methods for studies of biological molecules and quantum mechanics.
New Haven – CT 06520

Summer 2007 Merck & Co:Rosetta Inpharmatics
Biology Department
Biomedical Internship under Rachel Needham and Aimee Jackson Ph.D.
Topic of Interest: Construction of Inducible microRNA cell lines
Seattle - WA 98109

Summer 2006 National Institutes of Health
Institute of Infectious Diseases, Laboratory of Host Defenses
Bethesda - MD 20892

- Biomedical Internship under Sharon Jackson MD. and Meghan Jendrysik Ph.D.
- Topic of Interest: Generation of Stable Fluorescent Expression in Target Cells used to Characterize *Ex-vivo* Cytolytic T-cell function.
* Publication, Abstract and Poster are available upon request
- Developed a web-based program to identify and track mice, Established a database for LHD-11 mouse colonies and Inventory the complete colony being worked with on specific experiments.

Summer 2005 Temple University School of Medicine
Fels Institute for Cancer Research and Molecular Biology
Philadelphia – PA, 19140
Biomedical Internship under Dale Haines Ph.D. and Mr. Sabyasachi Bhattacharya

- Topic of Interest: Role of Rad23 and Dsk2 in the Proteasome Dependent Processing of NF- κ B Homologue Proteins, Mga2.
Put Hsp90 inhibitor in reticulolysate to investigate similarities in wheat germ

Drexel University School of Medicine
Philadelphia – PA, 19129

- Biomedical Internship under Dale Haines Ph.D.
- Topic of Interest: Determining the conditions under which OLE1 Gene is expressed in the presence of various proteins.

Temple University Hospital
Philadelphia – PA 19140

- Rotations with Chief Doctor of Internal Medicine and Radiology Department

Summer 2004 Temple University School of Medicine
Fels Institute for Cancer Research and Molecular Biology
Philadelphia – PA 19140
Biomedical Internship under Dale Haines Ph.D. and Mr. Sabyasachi Bhattacharya

- Topic of Interest: Role of the Ubiquitin-Proteasom Pathway in Activation of Spt23 and Mga2.

- Temple University Hospital Philadelphia – PA 19140
- Rotations with Chief Doctors in Department of Pulmonary, Physical Medicine & Rehab, GastroIntestinal and Cardiology Departments.

- Summer '02 & '03 Temple University Philadelphia – PA 19140
- Studied the basic laboratory techniques in preparation for biomedical internships
 - Research Projects included: Emphysema & Malaria

WORK EXPERIENCE

- South Ridge Sept. 2007 – Present:
- Undergraduate Recruitment Coordinator & Student Ambassador
 - Undergraduate Admissions Office
 - Yale University, New Haven – CT 06520
 - Visit New York City Schools to Recruit High Achieving Underrepresented Minorities
 - Give Presentations as a Student Ambassador about Science & Engineering at Yale
 - Admitted Students Website Team Member & Student Blogger

SKILLS

- Communication: Foreign languages - Yoruba, Pidgin, Spanish, Italian and Patua
- Laboratory: Flow Cytometry, Single Cell Isolation, Western Blotting, Northern Blotting, RNA & DNA Isolation, Thin Layer Chromatography, Gel Electrophoresis, Agarose Gel, Yeast Transformation, Bacterial Transformation, Extracting Tissue Culture from Mouse Embryo, Mouse Bone Marrow Isolation, Mouse Lymphnode Isolation, Restriction Digest, Protein Estimations, Protein Quantification, Cell In-vitro Transcription & Translation, Gene Cloning, Genomic Isolation, Mini, Midi and Maxi Preps, RNeasy Preps, Microsomal Isolation, RT reactions and PCR using Taqman.
 - Computer: Microsoft Office; Creating Websites using Dreamweaver MX, Macromedia Flash MX, Macromedia FreeHand 10, and Macromedia Fireworks.

AWARDS AND HONORS

- 2008 NOBCChE Advancing Science Travel Award
- 2007 Yale University's Science, Technology and Research Scholars Program
- 2007 Induction into Cum Laude Society
- 2007 Who's Who Among American High School Students
- 2007 English Department Prize
- 2007 Ron Brown Scholar
- 2006 Full Membership in the Mu Alpha Theta Mathematics National Honors Society
- 2006 National Rank (#25) in the National High School Math Collaborative Contest
- 2006 Recognition of Interest in Research
Awarded by the Protein Society
- 2006 National Youth Leadership Forum on Medicine Scholar Award
- 2006 Monmouth Junior Science Symposium Recognition
- 2005 Semi-Finalist in the American Mathematics Contest (AMC 12)
- 2005 Minority Trainee Research Forum's Acres of Diamond Award
Winner in the National Abstract Competition
Distinction in Oral Presentation and Poster Session
- 2005 Ventures Scholar by Ventures Program
- 2005 National Youth Leadership Forum on Medicine Commendation Award

- 2004 Minority Trainee Research Forum's Acres of Diamond Award
Winner in the National Abstract Competition
- 2004 Accomplishment in Biomedical Research Internship
Awarded by the Physician Scientist Training Program
- 2004 Quarter-Finalist in the American Mathematics Contest (AMC 10)
- 2002 - Recognition of Interest in Science
- Present Participation in the NCRR Science Education Program
Awarded by the National Institute of Health
- 2002- Recognition in Academic Excellence
- Present Awarded by the Physician Scientist Training Program

PRESENTATIONS / CONFERENCES

- 2008: Abstract selected for Presentation at the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCChe) Conference, Philadelphia - PA
- 2007: Presented at the Student National Medical Association Research Forum, Yale School of Medicine
- 2006: Presented at the National Institutes of Health Summer Poster Day
- 2006: Presented at the 11th Annual John W. Diggs Lecture & Scientific Poster Session, NIH
- 2005: Presented at the Minority Trainee Research Forum, Aventura – FL
- 2005: Attended 5th Annual Regional Research Conference on Ethic and Minority Health
- 2005: Attended Summer Research Poster Session at National Institutes of Health
- 2004: Presenter at the Minority Trainee Research Forum, Aventura – FL
- 2004: Attended Summer Research Poster Session at National Institutes of Health

LEADERSHIP

Yale African Students Association, *Social Chair Committee & Freshman Liaison*

- Increase awareness of health and political issues in Africa and involved in planning Africa Week at Yale
- Young Promoters of Health and Human Rights, *Board Member*
- Coordinated volunteer opportunities locally and internationally
- Led Christmas Gift Drive for AIDS Orphans in West Africa
- Handled fundraising initiatives to build a children's library in Togo

EXTRACURRICULAR ACTIVITIES

Unite For Sight, *Yale Chapter Member*

- Assisted in collecting eyeglasses for children in Ghana and India
- Involved in outreach events to educate others about eye care in developing countries
- Provided volunteer opportunities for community eye screenings in New Haven

Urban Improvement Corporation, *Math & Chemistry Tutor*

- Tutor students in Public Elementary and High Schools in New Haven

Haven Free Clinic Volunter, *Researcher*

- Assist with chart review, data analysis, and database design and management
- Conduct surveys of patients and volunteers to determine progress of the clinical and education goals

REFERENCES

Iona Black, Ph.D.
Yale University, Chemistry Department
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New Haven, CT 06520
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iona.black@yale.edu

Shani Peretz, Ph.D.
Peddie School, Biology Department Chair
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Hightstown, NJ 08520
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