**Jonathan O. Benjamin**

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Blacksburg, VA 24060

**OBJECTIVE:** Post-doctoral research position related to DNA sequencing.

# EDUCATION

**Doctor of Philosophy, Microbiology**, Expected June 20xx

Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg, VA

***Dissertation***: Regulation of aerobic gene expression in *Escherichia coli*

Advisor: Thomas W. Adamson

**Bachelor of Science, Biology**; Minor: Chemistry, May 20xx

Old Dominion University, Norfolk, VA

# HONORS/AFFILIATIONS

Phi Beta Kappa, inducted 20xx

Cunningham Dissertation Fellowship (Virginia Tech research grant), 20xx-20xx

American Society for Microbiology, 20xx - present

Sigma Xi, The Scientific Research Society, 20xx - present

National Institutes of Health Pre-doctoral Fellowship, 20xx – 20xx

# RESEARCH INTERESTS

Regulation of aerobic gene expression.

DNA sequencing and determination of DNA binding domains.

# TEACHING INTERESTS

Undergraduate biology and microbiology courses including microbiology, genetics, and microbial genetics.

Graduate microbiology courses.

# RELATED EXPERIENCE

***Research***

**Pre-Doctoral Fellow/Ph.D. Research**, Department of Biology, Virginia Tech

Blacksburg, VA, August 20xx - present

* Design and conduct experiments for purification and characterization of the repressor for the sn-glycerol 3-phosphate regulon of Escherichia coli K-12
* Identified structure of the *glp* repressor and determined DNA binding domains

**Research Fellow**, National Institutes of Health, Poolesville, MD

May 20xx - August 20xz

* Synthesized and purified hundreds of oligonucleotides.
* Sequenced DNA.
* Constructed a cosmid library from human blood DNA.

**Research Assistant**, Department of Biology, Virginia Tech, Blacksburg, VA

August 20xx - May 20xz

* Performed protein bioassays and prepared tissue cultures.
* Assisted with DNA preparations for DNA fingerprinting including isolating DNA and gel electrophoresis.
* Analyzed data.

**Biology Research Technician**, Biotech Research Laboratories, Inc., Roanoke, VA

June 20xx - August 20xz

* Participated in DNA fingerprinting project.
* Digested genomic DNA with restriction enzymes.
* Separated digested DNA fragments by electrophoresis through agarose gels and transferring by Southern blotting technique.
* Prepared buffers, photographed gels, developed autoradiographs.

***Teaching***

**Laboratory Instructor**, Department of Biology, Virginia Tech, Blacksburg, VA

August 20xx - present

* Taught two laboratory sections for undergraduate introductory Microbiology course.

**Teaching Assistant**, Department of Biochemistry and Nutrition, Virginia Tech, Blacksburg, VA

August 20xx - May 20xz; August 20xz - May 20xy

* Advised undergraduate biochemistry students during office hours.
* Graded quizzes and assignments.

## PUBLICATIONS

Doctor, J. B. and T. W. Advisor. Structure of the *glp* repressor and the determination of DNA binding domains. (in preparation)

Doctor, J. B. and T. W. Advisor. 20xx. Structures of the promoter and operator of the *glpD* gene encoding aerobic *sn*-glycerol 3-phosphate dehydrogenase of *Escherichia coli* K-12. J. Bacteriol. xx: xxxx-xxxx.

Advisor, T. W., J. B. Doctor, A. Colleague, and S. Colleague. 20xx. Purification and characterization of the repressor for the *sn*-glycerol 3-phosphate regulon of *Escherichia coli* K-12. J. Biol. Chem. xxx: xxxx-xxxx.

## ABSTRACTS

Doctor, J. B. and T. W. Advisor. 20xx. Nucleotide sequence of the *glpR* gene encoding the repressor of *Escherichia coli* K-12. Am. Society for Microbiol., Anaheim, CA.

Advisor, T. W., J. B. Doctor, A. Colleague, and S. Colleague, A. M. Graduate. 20xx. Tandem operators control *sn*-glycerol 3-phosphate *glp* gene expression in *Escherichia coli* Gordon Res. Conf., Meriden, NH.

Doctor, J. B. and T. W. Advisor. 20xx. Regulation of aerobic sn-glycerol 3-phosphate dehydrogenase *glpD* gene expression in *Escherichia coli* K-12. Am. Soc. for Microbiol., Miami Beach, FL.