

County Council of Howard County, Maryland

2019 Legislative Session

Legislative day # 5

RESOLUTION NO. 15 - 2019

Introduced by: Chairperson at the request of the County Executive

A RESOLUTION confirming the appointment of Antonia B. Watts to the Board of Library Trustees.

Introduced and read first time on April 1, 2019.

By order Jessica Feldmark  
Jessica Feldmark, Administrator to the County Council

Read for a second time and a public hearing held on April 22, 2019.

By order Jessica Feldmark  
Jessica Feldmark, Administrator to the County Council

This Resolution was read the third time and was Adopted , Adopted with amendments \_\_\_\_, Failed \_\_\_\_, Withdrawn \_\_\_\_ by the County Council on May 6, 2019.

Certified by Jessica Feldmark  
Jessica Feldmark, Administrator to the County Council

NOTE: [[text in brackets]] indicates deletions from existing language; TEXT IN SMALL CAPITALS indicates additions to existing language. ~~Strike-out~~ indicates material deleted by amendment; Underlining indicates material added by amendment.



## Antonia B. Watts

---

### EDUCATIONAL PHILOSOPHY

To teach students how to think critically, to problem solve, to collaborate and to communicate effectively

### PROFESSIONAL CERTIFICATIONS

- State of Maryland: Secondary Mathematics and Physics, January 1, 2014 – December 31, 2018

### EDUCATION

- Master of Arts, Secondary Education, University of Michigan, Ann Arbor MI
- Master of Science in Bioengineering, University of California Berkeley, Berkeley CA  
Thesis Title: *The Effect of Anterior Staple Configurations on the Stability of the Thoracic Spine.*
- Bachelor of Science in Mechanical Engineering, University of Delaware, Newark DE  
Minor: Math

### PROFESSIONAL EXPERIENCE

**Private Tutor in Math Education, *Self Employed*, Columbia, MD** 2017—present

- Developed customized instructional materials to simplify Algebra 1 concepts
- Contributed to an increase of more than 11% percent in final student grade
- Identified weaknesses and designed targeted review material to strengthen comprehension of subject
- Collaborated with main teacher to aid in design of a pacing guide

**Adjunct Professor in Math Education, *Howard County Community College*, Columbia, MD** 2016—2017

- Developed differentiated lesson for College Algebra and utilized classroom technology to deliver content
- Analyzed student data to improve outcome and instruction
- Maintained student data using Canvas
- Tutored diverse subject in mathematics lab
- Proctored and graded final exams

**Instructional Technology Specialist in Math Education, *Montgomery County*, Rockville, MD** 2013—2014

- Designed and modeled lessons incorporating novel technology to increase assessment opportunities
- Co-taught and observed the implementation of lessons to provide constructive feedback
- Collaborated with teachers to develop lessons and formative assessment items
- Conducted trainings for Ti-Nspire technology for math and science teachers
- Developed curriculum for geometry to implement the Common Core State Standards

**Math and Engineering Teacher, *Northwest Rankin High School*, Flowood, MS** 2012 – 2013

- Used backwards design to create inquiry-based lessons using Ti-Nspire technology
- Utilized project based learning to teach the Engineering Design Process, Computer Aid Drafting and the various engineering disciplines
- Collaborated with colleagues both within and outside of my content area
- Served as the archetype for colleague to implement Common Core Standards Geometry
- Supported parental involvement using Remind 101, email, phone and in person
- Secured community speakers to present real world applications of material
- Offered additional instructional support using Twiddla, after school tutoring and lunchtime
- Provided continuous formative assessment opportunities
- Maintained intranet calendar for faculty and staff

**Math Teacher, Williamsburg Middle School, Arlington, VA** 2011 – 2012

- Designed and presented engaging mathematics lessons for seventh grade math and pre algebra
- Utilized scaffolding and differentiation to promote higher order thinking and to meet state standards
- Incorporated various technologies into lessons including SMART technologies and computer software
- Flipped classroom to increase both personalized and differentiated instructional time
- Collaborated with colleagues both within and external to my content area
- Communicated with parents via email, homework blog, phone and in person
- Observed teachers within and outside of my department to develop more instructional strategies
- Offered homeroom, lunchtime and after-school instructional support
- Tutored in Virginia Standards of Learning Preparation Program for students requiring additional support

**Engineer, Toyota Technical Center, Ann Arbor, MI** 2005 – 2010

- Developed solutions and countermeasures for vehicles to ensure crashworthiness and compliance of NHTSA (National Highway Transportation Safety Administration) regulations
- Coordinated and conducted vehicle, sled and component testing
- Analyzed vehicle, sled and component test data
- Worked with various departments to optimize safety restraint systems
- Presented data analysis results to members within and outside of my group to build consensus
- Mentored interns and junior engineers in data analysis and technical presentations
- Managed vehicle program through schedule development and budget management
- Attended monthly CIREN (Crash Injury Research) meetings and reported those findings to department
- Wrote technical and compliance reports

### **FELLOWSHIPS, HONORS AND AWARDS**

- Siemens STEM Academy Fellow, Discovery Education, Silver Springs, MD 2012
- Rackham Merit Fellowship, Rackham Graduate School, University of Michigan, Ann Arbor, MI, 2010 – 2011
- Graduate Student Research Fellowship, University of California, Berkeley, CA 2003 – 2005
- RISE Scholarship, College of Engineering, University of Delaware, Newark, DE 1999 – 2003

### **PRESENTATIONS AND PUBLICATIONS**

- “Transformations as functions: Exploring rotational transformations using the TI Nspire Technology,” MCTM. Baltimore, MD, October 2015.
- “Twitter for PD not just Kim K,” 4T Virtual Conference. Ann Arbor, MI, May 2013.
- Christian M. Puttlitz, PhD, Fujita Masaru, MD, Antonia Barkley, MS. *A biomechanical assessment of thoracic spine stapling*. SPINE Volume 32, Number 7, pp 766–771.

### **PROFESSIONAL DEVELOPMENT**

- VA Tech Standards for Instructional Personnel
- Child Abuse Recognition & Intervention Training
- Blackboard Learning Management System
- CPR and First aid Certification
- Effective Teaching in Block Scheduling

### **PROFESSIONAL AFFILIATIONS**

- National Council of Teachers of Mathematics
- Delta Sigma Theta Sorority Incorporated

# Antonia B. Watts

---

## EDUCATIONAL PHILOSOPHY

To teach students how to think critically, to problem solve, to collaborate and to communicate effectively

## PROFESSIONAL CERTIFICATIONS

- State of Maryland: Secondary Mathematics and Physics, January 1, 2014 – December 31, 2018

## EDUCATION

- Master of Arts, Secondary Education, University of Michigan, Ann Arbor MI
- Master of Science in Bioengineering, University of California Berkeley, Berkeley CA  
Thesis Title: *The Effect of Anterior Staple Configurations on the Stability of the Thoracic Spine.*
- Bachelor of Science in Mechanical Engineering, University of Delaware, Newark DE  
Minor: Math

## PROFESSIONAL EXPERIENCE

**Private Tutor in Math Education, *Self Employed*, Columbia, MD** 2017—present

- Developed customized instructional materials to simplify Algebra 1 concepts
- Contributed to an increase of more than 11% percent in final student grade
- Identified weaknesses and designed targeted review material to strengthen comprehension of subject
- Collaborated with main teacher to aid in design of a pacing guide

**Adjunct Professor in Math Education, *Howard County Community College*, Columbia, MD** 2016—2017

- Developed differentiated lesson for College Algebra and utilized classroom technology to deliver content
- Analyzed student data to improve outcome and instruction
- Maintained student data using Canvas
- Tutored diverse subject in mathematics lab
- Proctored and graded final exams

**Instructional Technology Specialist in Math Education, *Montgomery County*, Rockville, MD** 2013—2014

- Designed and modeled lessons incorporating novel technology to increase assessment opportunities
- Co-taught and observed the implementation of lessons to provide constructive feedback
- Collaborated with teachers to develop lessons and formative assessment items
- Conducted trainings for Ti-Nspire technology for math and science teachers
- Developed curriculum for geometry to implement the Common Core State Standards

**Math and Engineering Teacher, *Northwest Rankin High School*, Flowood, MS** 2012 – 2013

- Used backwards design to create inquiry-based lessons using Ti-Nspire technology
- Utilized project based learning to teach the Engineering Design Process, Computer Aid Drafting and the various engineering disciplines
- Collaborated with colleagues both within and outside of my content area
- Served as the archetype for colleague to implement Common Core Standards Geometry
- Supported parental involvement using Remind 101, email, phone and in person
- Secured community speakers to present real world applications of material
- Offered additional instructional support using Twiddla, after school tutoring and lunchtime
- Provided continuous formative assessment opportunities
- Maintained intranet calendar for faculty and staff

**Math Teacher, Williamsburg Middle School, Arlington, VA**

2011 – 2012

- Designed and presented engaging mathematics lessons for seventh grade math and pre algebra
- Utilized scaffolding and differentiation to promote higher order thinking and to meet state standards
- Incorporated various technologies into lessons including SMART technologies and computer software
- Flipped classroom to increase both personalized and differentiated instructional time
- Collaborated with colleagues both within and external to my content area
- Communicated with parents via email, homework blog, phone and in person
- Observed teachers within and outside of my department to develop more instructional strategies
- Offered homeroom, lunchtime and after-school instructional support
- Tutored in Virginia Standards of Learning Preparation Program for students requiring additional support

**Engineer, Toyota Technical Center, Ann Arbor, MI**

2005 – 2010

- Developed solutions and countermeasures for vehicles to ensure crashworthiness and compliance of NHTSA (National Highway Transportation Safety Administration) regulations
- Coordinated and conducted vehicle, sled and component testing
- Analyzed vehicle, sled and component test data
- Worked with various departments to optimize safety restraint systems
- Presented data analysis results to members within and outside of my group to build consensus
- Mentored interns and junior engineers in data analysis and technical presentations
- Managed vehicle program through schedule development and budget management
- Attended monthly CIREN (Crash Injury Research) meetings and reported those findings to department
- Wrote technical and compliance reports

**FELLOWSHIPS, HONORS AND AWARDS**

- Siemens STEM Academy Fellow, Discovery Education, Silver Springs, MD 2012
- Rackham Merit Fellowship, Rackham Graduate School, University of Michigan, Ann Arbor, MI, 2010 – 2011
- Graduate Student Research Fellowship, University of California, Berkeley, CA 2003 – 2005
- RISE Scholarship, College of Engineering, University of Delaware, Newark, DE 1999 – 2003

**PRESENTATIONS AND PUBLICATIONS**

- “Transformations as functions: Exploring rotational transformations using the TI Nspire Technology,” MCTM. Baltimore, MD, October 2015.
- “Twitter for PD not just Kim K,” 4T Virtual Conference. Ann Arbor, MI, May 2013.
- Christian M. Puttlitz, PhD, Fujita Masaru, MD, Antonia Barkley, MS. *A biomechanical assessment of thoracic spine stapling*. SPINE Volume 32, Number 7, pp 766–771.

**PROFESSIONAL DEVELOPMENT**

- VA Tech Standards for Instructional Personnel
- Child Abuse Recognition & Intervention Training
- Blackboard Learning Management System
- CPR and First aid Certification
- Effective Teaching in Block Scheduling

**PROFESSIONAL AFFILIATIONS**

- National Council of Teachers of Mathematics
- Delta Sigma Theta Sorority Incorporated

County Council of Howard County, Maryland

2019 Legislative Session

Legislative day # 3

RESOLUTION NO. 15 - 2019

Introduced by: Chairperson at the request of the County Executive

A RESOLUTION confirming the appointment of Antonia B. Watts to the Board of Library Trustees.

Introduced and read first time on \_\_\_\_\_, 2019.

By order \_\_\_\_\_  
Jessica Feldmark, Administrator to the County Council

Read for a second time and a public hearing held on \_\_\_\_\_, 2019.

By order \_\_\_\_\_  
Jessica Feldmark, Administrator to the County Council

This Resolution was read the third time and was Adopted \_\_\_\_, Adopted with amendments \_\_\_\_, Failed \_\_\_\_, Withdrawn \_\_\_\_ by the County Council on \_\_\_\_\_, 2019.

Certified by \_\_\_\_\_  
Jessica Feldmark, Administrator to the County Council

NOTE: [[text in brackets]] indicates deletions from existing language; TEXT IN SMALL CAPITALS indicates additions to existing language. ~~Strike out~~ indicates material deleted by amendment; Underlining indicates material added by amendment.





# Antonia B. Watts

---

## EDUCATIONAL PHILOSOPHY

To teach students how to think critically, to problem solve, to collaborate and to communicate effectively

## PROFESSIONAL CERTIFICATIONS

- State of Maryland: Secondary Mathematics and Physics, January 1, 2014 – December 31, 2018

## EDUCATION

- Master of Arts, Secondary Education, University of Michigan, Ann Arbor MI
- Master of Science in Bioengineering, University of California Berkeley, Berkeley CA  
Thesis Title: *The Effect of Anterior Staple Configurations on the Stability of the Thoracic Spine.*
- Bachelor of Science in Mechanical Engineering, University of Delaware, Newark DE  
Minor: Math

## PROFESSIONAL EXPERIENCE

**Private Tutor in Math Education, *Self Employed*, Columbia, MD** 2017—present

- Developed customized instructional materials to simplify Algebra 1 concepts
- Contributed to an increase of more than 11% percent in final student grade
- Identified weaknesses and designed targeted review material to strengthen comprehension of subject
- Collaborated with main teacher to aid in design of a pacing guide

**Adjunct Professor in Math Education, *Howard County Community College*, Columbia, MD** 2016—2017

- Developed differentiated lesson for College Algebra and utilized classroom technology to deliver content
- Analyzed student data to improve outcome and instruction
- Maintained student data using Canvas
- Tutored diverse subject in mathematics lab
- Proctored and graded final exams

**Instructional Technology Specialist in Math Education, *Montgomery County*, Rockville, MD** 2013—2014

- Designed and modeled lessons incorporating novel technology to increase assessment opportunities
- Co-taught and observed the implementation of lessons to provide constructive feedback
- Collaborated with teachers to develop lessons and formative assessment items
- Conducted trainings for Ti-Nspire technology for math and science teachers
- Developed curriculum for geometry to implement the Common Core State Standards

**Math and Engineering Teacher, *Northwest Rankin High School*, Flowood, MS** 2012 – 2013

- Used backwards design to create inquiry-based lessons using Ti-Nspire technology
- Utilized project based learning to teach the Engineering Design Process, Computer Aid Drafting and the various engineering disciplines
- Collaborated with colleagues both within and outside of my content area
- Served as the archetype for colleague to implement Common Core Standards Geometry
- Supported parental involvement using Remind 101, email, phone and in person
- Secured community speakers to present real world applications of material
- Offered additional instructional support using Twiddla, after school tutoring and lunchtime
- Provided continuous formative assessment opportunities
- Maintained intranet calendar for faculty and staff

**Math Teacher, Williamsburg Middle School, Arlington, VA**

2011 – 2012

- Designed and presented engaging mathematics lessons for seventh grade math and pre algebra
- Utilized scaffolding and differentiation to promote higher order thinking and to meet state standards
- Incorporated various technologies into lessons including SMART technologies and computer software
- Flipped classroom to increase both personalized and differentiated instructional time
- Collaborated with colleagues both within and external to my content area
- Communicated with parents via email, homework blog, phone and in person
- Observed teachers within and outside of my department to develop more instructional strategies
- Offered homeroom, lunchtime and after-school instructional support
- Tutored in Virginia Standards of Learning Preparation Program for students requiring additional support

**Engineer, Toyota Technical Center, Ann Arbor, MI**

2005 – 2010

- Developed solutions and countermeasures for vehicles to ensure crashworthiness and compliance of NHTSA (National Highway Transportation Safety Administration) regulations
- Coordinated and conducted vehicle, sled and component testing
- Analyzed vehicle, sled and component test data
- Worked with various departments to optimize safety restraint systems
- Presented data analysis results to members within and outside of my group to build consensus
- Mentored interns and junior engineers in data analysis and technical presentations
- Managed vehicle program through schedule development and budget management
- Attended monthly CIREN (Crash Injury Research) meetings and reported those findings to department
- Wrote technical and compliance reports

**FELLOWSHIPS, HONORS AND AWARDS**

- Siemens STEM Academy Fellow, Discovery Education, Silver Springs, MD 2012
- Rackham Merit Fellowship, Rackham Graduate School, University of Michigan, Ann Arbor, MI, 2010 – 2011
- Graduate Student Research Fellowship, University of California, Berkeley, CA 2003 – 2005
- RISE Scholarship, College of Engineering, University of Delaware, Newark, DE 1999 – 2003

**PRESENTATIONS AND PUBLICATIONS**

- “Transformations as functions: Exploring rotational transformations using the TI Nspire Technology,” MCTM. Baltimore, MD, October 2015.
- “Twitter for PD not just Kim K,” 4T Virtual Conference. Ann Arbor, MI, May 2013.
- Christian M. Puttlitz, PhD, Fujita Masaru, MD, Antonia Barkley, MS. *A biomechanical assessment of thoracic spine stapling*. SPINE Volume 32, Number 7, pp 766–771.

**PROFESSIONAL DEVELOPMENT**

- VA Tech Standards for Instructional Personnel
- Child Abuse Recognition & Intervention Training
- Blackboard Learning Management System
- CPR and First aid Certification
- Effective Teaching in Block Scheduling

**PROFESSIONAL AFFILIATIONS**

- National Council of Teachers of Mathematics
- Delta Sigma Theta Sorority Incorporated