- **Full Name:** Alice Margaret Story   
- **Institutional Affiliation:** Spelman College  
- **Major and Year in School:** (or Major and Graduation Date): Biology, May 15, 2011   
- **Gender (optional):**Female   
- **Race/Ethnicity(optional):** African American   
- **Postal Address:** 445 North Drive, Fayetteville, Georgia 30214  
- **Country:** United States of America   
- **E-mail Address:** amstory11@gmail.com   
- **Telephone Number (including country code):** 1(678)525-1122  
- **Academic Supervisor’s Name:** Hong Qin   
- **Institutional Affiliation of Academic Supervisor:** Spelman College   
- **Postal Address of Academic Supervisor**: 350 Spelman Lane, Box 1183, Atlanta, Georgia 30314  
- **E-mail Address of Academic Supervisor**: [qhin@spelman.edu](mailto:qhin@spelman.edu)  
- CV (limited to one page)  
- **Plans for the Future (limited to 25 words**): In the future I plan to obtain a PhD in epidemiology to understand epidemiologic and evolutionary mechanisms/concepts of disease transmission and prevention.   
- **Poster Title:** The interconnection of molecular evolution, gene network, and cellular aging   
- **Poster Authors:** Alice Story, Charita Montgomery, Hong Qin  
- **Poster Abstract (no longer than 250 words):**

Pleiotropic traits, such as cellular aging, are shaped by gene networks which channeled the molecular evolution of individual genes into phenotypic manifestations. We recently proposed a mathematical model and demonstrated that cellular aging is an emergent property of gene networks and the rate of aging is proportional to network robustness. Here, we aim to dissect the interconnection of molecular evolution, robustness, and life-history traits in *Saccharomyces*. *cerevisiae*. We evaluated the causal interactions of protein connectivity, evolutionary distance, fitness, morphological plasticity, and life span using partial regressions. We found that molecular evolution influence life span through growth fitness.

Alice M. Story

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**EDUCATION**

Spelman College

B.S. Biology May 2011

**AWARDS**

Evolution Undergraduate Diversity Travel Award, *Oklahoma University* **March 2011**

**RESEARRCH EXPERIENCE**

Spelman College-Biology Department

*Research Assistant* January 2011-Present

Determining factors that influence robustness and cellular Aging in *Saccharomyces cerevisiae.*

Spelman College-Biology Department

*Research Assistant* August 2010-Present

Analyzing the evolution of *Tribolium castaneum* social environment and reproductive trait*s.*

Emory University Rollins School of Public Health

*Research Assistant*  February-August 2010

Investigated individuals with DiGeorge syndrome (deletion on chromosome 22) and assessed their risk for developing schizophrenia.

**Minority Biomedical Research Support-Research Initiative for Scientific Enhancement (MBRS-RISE) Development Program**

*Affiliate, Spelman College* September 2009 – Present

Membership provides preparation for a career in biomedical research.

MBRS-RISE Research Training Program

*Research Trainee*, *Spelman College*  June-July 2009

Participation enhanced my skills on the fundamentals of research.

**RELATED EXPERIENCE**

**Health Careers Connection Program, Berkeley/Oakland California**

*Intern, Public Health* June-August 2010

* Worked in community outreach programs designed to promote healthier lifestyles and choices by bringing awareness to issues such as stroke, hypertension, and heart disease at health fairs and within neighborhoods.
* Mentored underserved youth to achieve higher education.
* Formulated and managed Asthma K-12 and Teen Health 6-12 modules and presentations.
* Contributed to Mentoring in Medicine Inc. annual conference through outreach to potential sponsors, organizations, and coordinated meetings with health professionals.
* Highland Hospital Emergency Department: conducted shadow shifts and didactic presentations.

**Conferences**

**“The Benefit of Male Mate Choice in Tribolium castaneum Male Beetles”/ “Robustness and Cellular Aging in Saccharomyces cerevisiae”**

Oral and poster presented at Spelman College Research Day *Atlanta, Georgia* **March 2011**

**“The Benefit of Male Mate Choice in Tribolium castaneum Male Beetles”/ “Robustness and Cellular Aging in Saccharomyces cerevisiae”**

Oral and poster presented at the Southeastern Ecology and Evolution Conference *Auburn, Alabama* **April 2011**

**“Fitness Consequences of Female Mate Choice in Red Flour Beetles”/ “Influence of Female Mating Status on their Male Partners’ Behaviors in the Red Flour Beetles”/ “Do Male Flour Beetles Exhibit Alternative Mating Strategies?”** **April 2011**

Co-author for poster presentations at Spelman College Research Day, Atlanta, Georgia

**Technological skill**

Proficient with Microsoft Word, Excel, Access and Power Point, R Project for Statistical Computing