

# *Journal of Women and Minorities in Science and Engineering*

## VOLUME 21 CONTENTS, 2015

---

### Page Range of Issues

Issue 1: 1–85; Issue 2: 87–179; Issue 3: 181- 269; Issue 4: 271-362

---

### ISSUE 1

- Intersectionality as A Framework for Understanding Diverse Young Women’s Commitment to Engineering** 1  
*M.J. Bruning, J. Bystydzienski, & M. Eisenhart*
- Differences in Self-Efficacy among Women and Minorities in Stem** 27  
*D.M. Wilson, R. Bates, E. Scott, S.M. Painter, & J. Shaffer*
- Examining Factors Associated with the Success of Women in Mathematics Doctoral Programs** 47  
*E. Miller*
- 

### ISSUE 2

- The Summer was Worth It: Exploring the Influences of a Science, Technology, Engineering, and Mathematics Focused Summer Research Program on the Success of African American Females** 87  
*D. Jackson-Smith*
- Learning Masculinity: Unmasking the Hidden Curriculum in Science, Technology, Engineering and Mathematics Courses** 107  
*A.R. Bejerano, & T.M. Bartosh*
- Academic Career Satisfaction: The Roles of Gender and Discipline** 125  
*L. Rigg, B. Coller, J. Reynolds, A. Levin, & C. McCord*
- Starting at the Crossroads: Intersectional Approaches to Institutionally Supporting Underrepresented Minority Women STEM Faculty** 141  
*M.A. Armstrong, & J. Jovanovic*
- “Respect Me for My Science”: A Bourdieuan Analysis of Women Scientists Interactions with Faculty and Socialization Into Science** 159  
*K.A. Griffin, K.D. Gibbs, Jr., J. Bennett, C. Staples, & T. Robinson*

### ISSUE 3

|   |     |
|---|-----|
| <b>An Investigation into the Longitudinal Identity Trajectories of Women in Science, Technology, Engineering, and Mathematics</b><br><i>R. Hughes</i>   | 181 |
| <b>Gender Differences in the Social Responsibility Attitudes of Engineering Students and how they Change over Time</b><br><i>N.E. Canney &amp; A.R. Bielefeldt</i>  | 215 |
| <b>Evaluating Characteristics and Outcomes of Underrepresented Students Selecting Biomedical Laboratory Research Internship Programs</b><br><i>S.R. Chaudhary, E.J. Coups, S.V. Hudson, &amp; S.M. Tomlinson-Clarke</i> | 239 |
| <b>Gender-Biased Self-Evaluations of First-Year Engineering Students</b><br><i>A. Woodcock &amp; D. Bairaktarova</i>  | 255 |

---

### ISSUE 4

|   |     |
|---|-----|
| <b>Pathways vs. Pipelines To Broadening Participation in the Stem Workforce</b><br><i>K. Husbands Fealing, Y. Lai, &amp; S.L. Myers, Jr</i>   | 271 |
| <b>Insider and Outsider-Within Standpoints: The Experiences of Diverse Faculty in Science and Engineering Fields</b><br><i>D. Rios &amp; A.J. Stewart</i>   | 295 |
| <b>Rethinking Race in Student-Faculty Interactions and Mentoring Relationships with Undergraduate African American Engineering and Computer Science Majors</b><br><i>C.B. Newman</i>                    | 323 |
| <b>Predicting Degree Attainment In Engineering And Biological/Life Sciences: An Exploratory Study</b><br><i>H.O. Wao, R.S. Lee, J. Ochieng Wao, G. Owuor Odondi, E. Akoth Tenge, &amp; C.A.S. Smith</i> | 347 |

# *Journal of Women and Minorities in Science and Engineering*

## AUTHOR INDEX

---

### Page Range of Issues

Issue 1: 1–85; Issue 2: 87–179; Issue 3: 181– 269; Issue 4: 271-362

---

- |                           |                             |
|---------------------------|-----------------------------|
| Akoth Tenge, E., 347      | Lai, Y., 271                |
| Armstrong, M.A., 125      | Lee, R.S., 347              |
| Bairaktarova, D., 255     | Levin, A., 125              |
| Bartosh, T.M., 107        | McCord, C., 125             |
| Bates, R., 27             | Miller, E., 47              |
| Bejerano, A.R., 107       | Scott, E., 27               |
| Bennett, J., 159          | Myers, Jr, S.L., 271        |
| Bielefeldt, A.R., 215     | Newman, C.B., 323           |
| Bruning, M.J., 1          | Ochieng Wao, J., 347        |
| Bystydzienski, J., 1      | Owuor Odondi, G., 347       |
| Canney, N.E., 215         | Painter, S.M., 27           |
| Chaudhary, S.R., 239      | Reynolds, J., 125           |
| Coller, B., 125           | Rigg, L., 125               |
| Coups, E.J., 239          | Rios, D., 295               |
| Eisenhart, M., 1          | Robinson, T., 159           |
| Gibbs, K.D., Jr., 159     | Shaffer, J., 27             |
| Griffin, K.A., 159        | Smith, C.A.S., 347          |
| Hudson, S.V., 239         | Staples, C., 159            |
| Hughes, R., 181           | Stewart, A.J., 295          |
| Husbands Fealing, K., 271 | Tomlinson-Clarke, S.M., 239 |
| Jackson-Smith, D., 87     | Wao, H.O., 347              |
| Jovanovic, J., 141        | Wilson, D.M., 27            |
|                           | Woodcock, A., 255           |

# *Journal of Women and Minorities in Science and Engineering*

## SUBJECT INDEX

---

| Page Range of Issues  |  |   |
|---|--|---|
| Issue 1: 1–85; Issue 2: 87–179; Issue 3: 181- 269; Issue 4: 271-362 |  |   |
| African American, 87, 323   | femininity, 107                              | research programs,87                                |
| agency, 125   | gender, 107, 141, 181, 255                   | resources, 125                                      |
| attrition, 47   | gender bias, 255                             | respect, 125  |
| best practices, 47  | gender biased self-<br>evaluation, 255       | retention, 215, 347                                 |
| biomedical research, 239  | gender differences, 239                      | science and technology, 271                         |
| class,1   | gender equity, 47                            | science identity, 159                               |
| computer science, 27  | gender marginalization, 125                  | Science, Technology, En-<br>gineering & Mathematics |
| chemistry, 27   | graduate education, 159                      | (STEM), 1, 27, 87, 107,                             |
| chemists, 271   | graduate programs, 87                        | 125, 141, 271, 295                                  |
| civil engineering, 27   | graduate student, 47                         | self-efficacy, 27, 239                              |
| college persistence, 347  | hidden curriculum, 107                       | service learning, 215                               |
| college students, 323   | higher education, 323                        | social capital, 159                                 |
| college teacher-student<br>relationships, 323                       | institutional change, 141                    | socialization, 159                                  |
| cultural capital, 159   | intersectionality, 1, 141                    | standpoint theory, 295                              |
| diversity in STEM, 255  | longitudinal STEM                            | STEM exploration, 1                                 |
| earnings, 347   | persistence, 181                             | STEM identity, 181                                  |
| education, 271  | masculinity, 107                             | student employment, 347                             |
| electrical engineering, 27  | mentoring, 159, 323                          | student success, 87                                 |
| engineering education, 255,<br>323                                  | middle school, 181                           | summer undergraduate, 87                            |
| engineering gender, 1   | minorities, 239                              | syllabus, 107                                       |
| equity, 125   | pathways, 271                                | underrepresentation, 271,<br>295                    |
| etention, 47  | Ph.D., 47                                    | underrepresented minority,<br>141                   |
| ethics, 215   | pipeline, 271                                | work, 347   |
| faculty, 159, 295   | professional social racial<br>relations, 323 | women, 87, 141, 159                                 |
| family balance, 125   | race, 1, 141                                 | young women, 1                                      |
| female, 27  | responsibility, 215                          |   |