Gender at energy economics
Tol, Richard S.J.

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The gender ratio in economics has always been skewed towards men. Progress towards a more even balance seems to have stopped around the turn of the century. As a field, energy economics, with 16.7% women, does slightly worse than economics as a whole (19.1% female). There are many causes for this (Dynan and Rouse 1997; Emerson et al. 2018; Bayer and Rouse 2016; CSWEP 2000). An end to negative discrimination, if any, is part of the portfolio of solutions.

Journal editors play a role there. Erin Hengel shows that, in four of the Top 5 journals of economics, articles written by women are better readable, apparently because they face tougher reviews. In *Econometrica*, the review process takes longer for women. That should not be.

In preparation for its Gender Report, Elsevier has developed gender-recognition tools and applied them to journal archives. The data will become publicly available through *ScienceDirect*, *Scopus* and other services at a later date. Journal editors have privileged access.

The data cover 7569 submissions to *Energy Economics* between April 2005 and September 2017. For 6076 submissions, the gender of the corresponding author was identifiable from the first name. Other data include the country of affiliation, final decision, number of invited and submitted reviews and reviewers, number of revisions, and time to first and final decision.

There is no statistically significant difference between men and women on the fraction of refusing referees, on the number of revisions, or on the time to first and final decision. On these indicators, women are treated slightly more favourably. See Table 1. The number of invited referees and the number of referees who complete a report are slightly but significantly higher for men.

### Table 1

<table>
<thead>
<tr>
<th></th>
<th>Time to decision</th>
<th>Number of Revisions</th>
<th>Reviews</th>
<th>Invites</th>
<th>Complete</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>First</td>
<td>Final</td>
<td>1.52</td>
<td>1.63</td>
<td>2.51</td>
<td>1.28</td>
</tr>
<tr>
<td>Male</td>
<td>101.8</td>
<td>160.1</td>
<td>(0.01)</td>
<td>(0.02)</td>
<td>(0.03)</td>
<td>(0.02)</td>
</tr>
<tr>
<td>Female</td>
<td>94.3</td>
<td>157.5</td>
<td>1.50</td>
<td>1.56</td>
<td>2.34</td>
<td>1.20</td>
</tr>
<tr>
<td>Diff.</td>
<td>7.5</td>
<td>2.7</td>
<td>0.02</td>
<td>0.07</td>
<td>0.17</td>
<td>0.08</td>
</tr>
<tr>
<td></td>
<td>(3.9)</td>
<td>(6.4)</td>
<td>(0.03)</td>
<td>(0.05)</td>
<td>(0.07)</td>
<td>(0.05)</td>
</tr>
</tbody>
</table>

### Table 2

|                | Number | Share | | | |
|----------------|--------|-------|---|---|---|---|---|---|
|                | Accept | Reject | Desk | Accept | Reject | Desk | Accept | Reject | Desk |
| Male           | 1358   | 1584   | 1535 | 30.3% | 35.4%  | 34.3% | 37.7% |
| Female         | 369    | 458    | 501  | 27.8% | 34.5%  | 35.2% | 31.5% |
| Gender known   | 1727   | 2042   | 2036 | 29.8% | 35.2%  | 35.1% |        |
| All            | 2274   | 2468   | 2520 | 31.3% | 34.0%  | 34.7% |        |

Three decisions are recorded: acceptance, rejection after review, and desk rejection. Table 2 shows the percentages for all submissions, all submissions with known gender, men and women. Women do worse ($\chi^2 = 5.92, p = 0.052$). However, there are stark differences between

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1. See https://ideas.repec.org/top/female.html#cohort.
2. See https://ideas.repec.org/top/female.html#field.
3. See https://voxeu.org/article/evidence-peer-review-women-are-held-higher-standards.
countries on both gender ratio and rejection rate. See Fig. 1 for the 22 countries with more than 100 submissions. Fig. 2 shows the test results for the equality between men and women of proportions of decisions. The null hypothesis of equal treatment of men and women cannot be rejected for any country. Three countries—South Korea, Taiwan and China—have a high rejection rate and a high fraction of authors recorded as female.

Energy Economics does not confirm the pattern found by Erin Hengel. This is good news, but no ground for complacency.

References


Richard S.J. Tol
Department of Economics, University of Sussex, Falmer BN1 9SL, UK
Institute of Environmental Studies, Vrije Universiteit, Amsterdam, The Netherlands
Department of Spatial Economics, Vrije Universiteit, Amsterdam, The Netherlands
Tinbergen Institute, Amsterdam, The Netherlands
CESifo, Munich, Germany
Payne Institute for Earth Resources, Colorado School of Mines, Golden, CO, USA
E-mail address: r.tol@sussex.ac.uk.

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