

Open Access Journals & Academics' Behaviors

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Aim of the paper

- Conducting a behavioral investigation about academic habits on Open Access (OA) scholarly journals (economics)
- Identifying emerging issues related to the recognition of OA journals among economists (e.g. whether OA & Closed Access CA journals are substitutes or complements) and possibly

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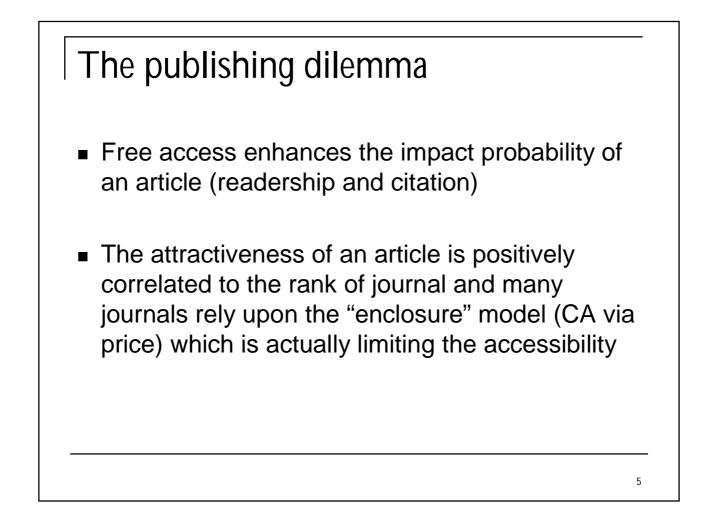
Providing policy implications

Economics of science

- The primary goal of scientific activity is production and dissemination of knowledge
- Many institutions emerged in order to set up the proper environment and incentives to researchers
- Scholarly journals have become a pivot in a broader knowledge system
- But they are also central in the researchers' rewarding system (they have so far produced the most important currency, i.e. reputation & prestige)

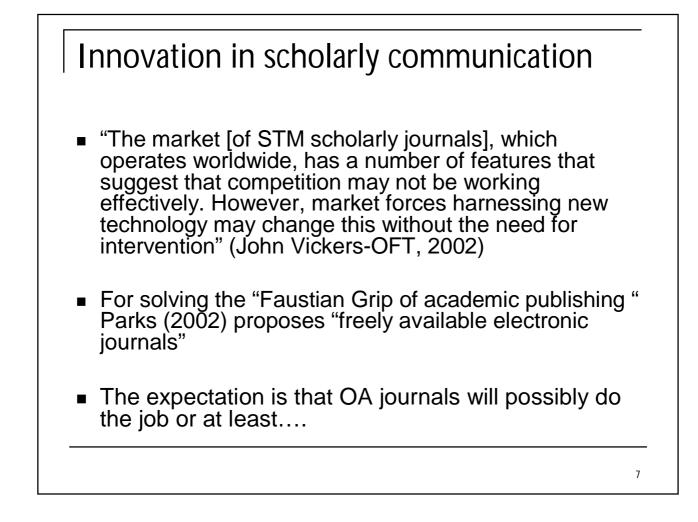
Publish or Perish

- In many countries publishing in peer review ranked journals is crucial (since Hamermesh et al. 1982):
 - □ for career (tenure and promotion)
 - □ for economic rewards (salary, prizes, etc.)
 - □ for funds (research assessment evaluation)
- Journals and citations are becoming the bread and butter of researchers' everyday life everywhere
- Of course, the access to previous knowledge (articles) is a necessary (though not sufficient) condition for playing the "publish or perish" game

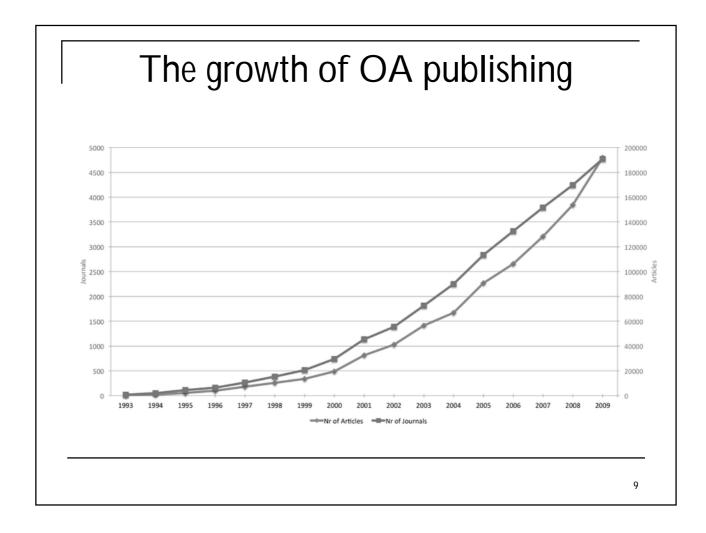


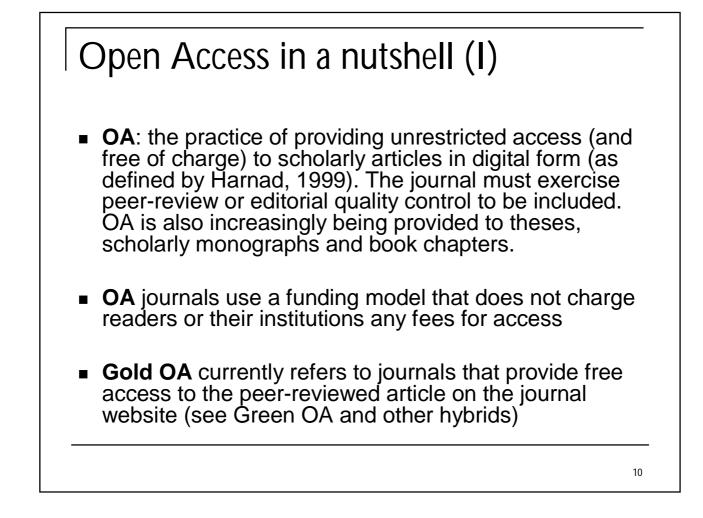
The shifting boundaries of scientific publishing

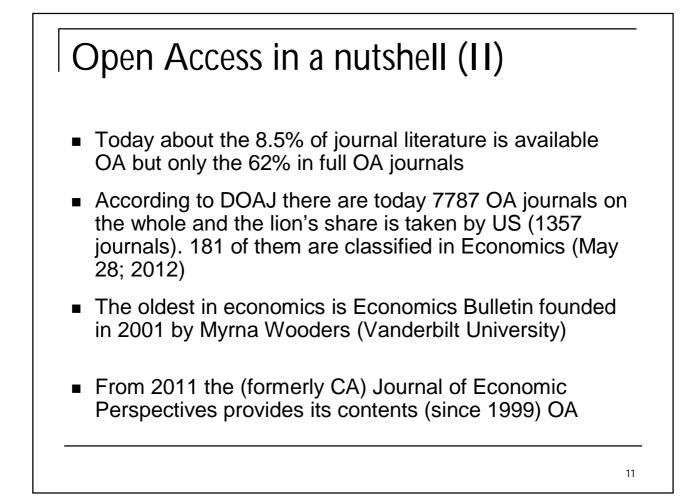
- Journals in many disciplines took over any kind of publications (e.g. books)
- Today this equilibrium is challenged by the serial crisis, essentially determined by two factors
 - dramatic increase in journal prices
 - significant reduction of university budgets
- Open Access publishing has been identified as a possible relief to the serials crisis

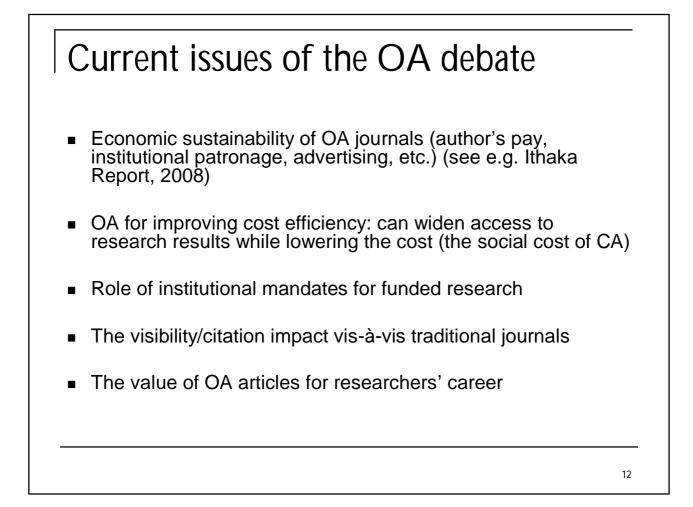


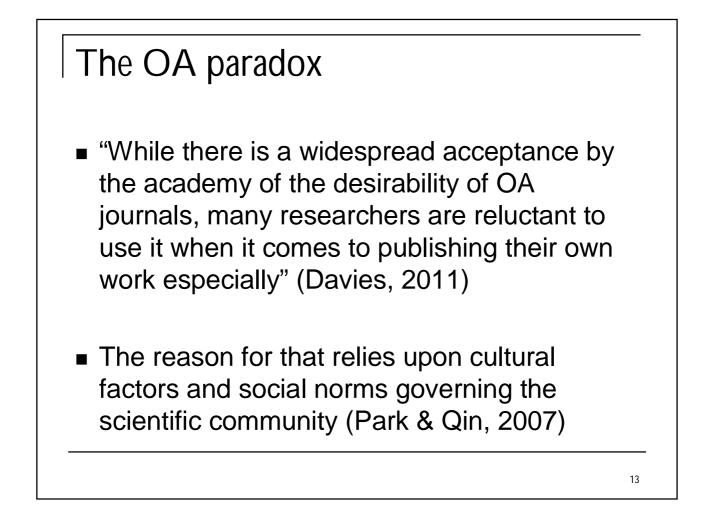


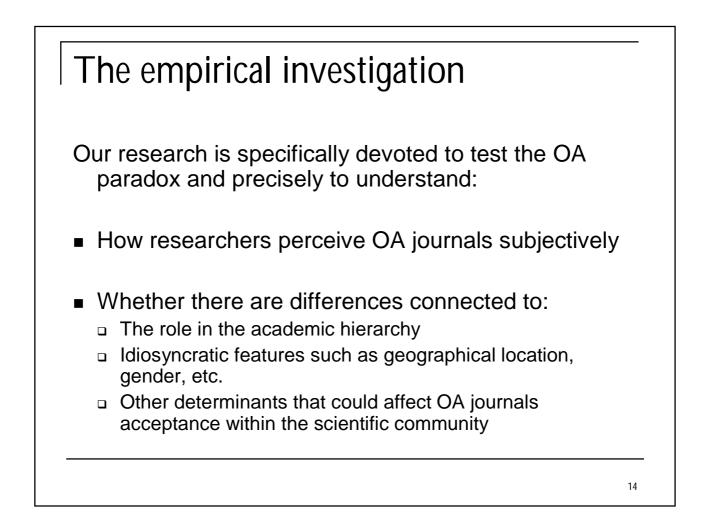






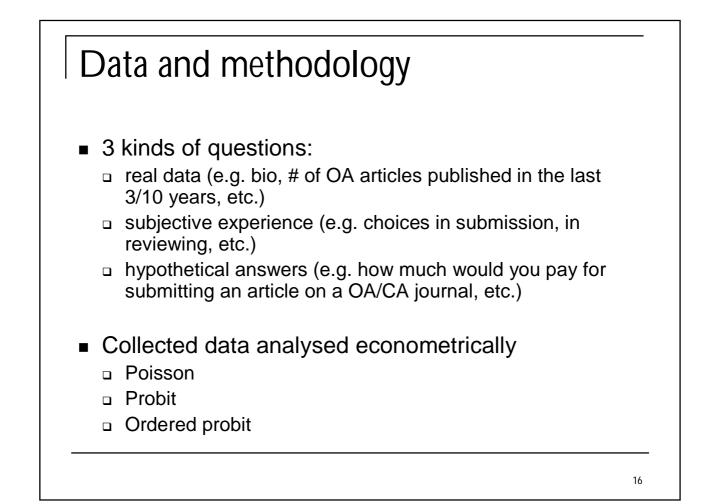








- Data collected through an online survey (LimeSurvey Open Source software)
- Selected respondents invited worlwide by email (through societies, departments and OA journals mailing lists)
- 445 complete questionnaires 560 total responses
- Academics from all the world, although the majority from Europe.
- Questionnaire divided into two parts:
 - Please answer as an author
 - Please answer as a reader (and referee)



Results: descriptive statistics

	Post-docs	Assist. Prof.	Associate Prof.	Full Prof.
	(15.10%)	(26.96%)	(21.99%)	(35.94%)
Seniority (years)	3.20	5.99	12.11	24.42
Publishing is important (mean) ¹	7.81	8.29	8.63	8.51
CA is better than OA (mean) ¹	5.62	6.28	6.06	6.37
Anglosaxon	5.80%	22.46%	25.36%	46.38%
Continental Europe	20.50%	27.70%	17.63%	34.17%
Referees are stricter for CA	41.18%	47.54%	42.00%	48.41%
Referees are stricter for OA	4.41%	1.64%	1.00%	2.55%
Ever published in an OA journal	44.12%	40.98%	52.53%	45.57%
Number of paper published in OA	2.13	3.14	3.85	4.35
OA better than CA for career	32.35%	38.84%	47.00%	48.70%
OA wider audience than CA	77.94%	77.69%	74.00%	73.86%
OA provides more citations than CA	50.00%	56.20%	57.00%	45.45%
First choice OA	29.41%	37.10%	39.60%	39.24%
Quality submitted to OA (mean) ¹	5.53	6.28	6.62	6.06
Same quality of journal prefer CA ¹	3.81	3.60	3.48	3.84

¹ 1 - 10 scale

	Whole sample	Have published in OA only
Male	2.660	1.755
	(0.503)***	(0.266)***
Anglosaxon	0.506	0.669
5	(0.098)***	(0.109)***
Seniority	0.979	0.986
	(0.011)**	(0.011)
Assistant professor	1.478	1.498
	(0.408)	(0.291)**
Associate professor	2.409	1.816
	(0.714)***	(0.427)***
Full professor	3.097	2.431
	(1.143)***	(0.711)***
CA journals are better than OA	0.900	0.928
	(0.034)***	(0.028)***
OA provides a wider audience	1.608	1.222
	(0.375)**	(0.190)
OA provides more citations than CA	1.499	1.361
•	(0.285)**	(0.226)**
OA is popular in the department	1.262	1.115
	(0.058)***	(0.046)***
Referees are sticter on CA than on OA	0.750	0.649
	(0.122)*	(0.092)***
Obs	438	200

	Coeff	mfx
Male	0.507	0.155
	(0.167)***	(0.052)***
Anglosaxon	-0.353	-0.114
	(0.161)**	(0.049)**
Assistant professor	0.154	0.057
	(0.214)	(0.078)
Associate professor	0.616	0.239
	(0.245)**	(0.091)**
Full professor	0.374	0.143
	(0.282)	(0.107)
Seniority	-0.010	-0.003
	(0.009)	(0.003)
CA journals are better than OA	0.062	0.022
	(0.031)**	(0.011)**
DA journals provide wider audience than CA	0.469	0.146
	(0.173)***	(0.052)***
DA publishing popular in my department	0.127	0.046
	(0.040)***	(0.014)***
Reading OA articles	0.532	0.206
	(0.164)***	(0.063)***
Citing OA articles	0.154	0.055
	(0.034)***	(0.014)***
Constant	-2.866	
	(0.430)***	
Dbs	424	
R2	0.223	

	coeff	Y = 4	Y = 7
Publishing is important	0.080	-0.003	0.008
	(0.026)***	(0.001)**	(0.003)***
Seniority	-0.013	5*10 ⁻⁴	-0.001
	(0.006)***	(3*10 ⁻⁴)*	(6*10 ⁻⁴)**
OA journals provide wider audience than CA	-0.336	0.015	-0.033
, ,	(0.114)**	(0.008)**	(0.013)**
OA journals provide more citations than CA	-0.384	0.017	-0.038
	(0.120)***	(0.007)**	(0.013)***
CA more important than OA for career	0.423	-0.019	0.041
	(0.122)***	(0.007)***	(0.013)***
Referees are stricter in CA	0.552	-0.025	0.052
	(0.124)***	(0.008)***	(0.013)***
Pay accession fees to CA because			
publishers are profit-oriented	-0.494	0.013	-0.047
fees are an incentive to improve quality	(0.163)***	(0.007)*	(0.016)**
	-0.243	0.008	-0.024
	(0.146)*	(0.006)	(0.015)*
Pr(Y = n)		0.066	0.100
Obs	440		
R2	0.087		

Male, Anglosaxon, academic rank, popularity of OA in the responder's department, other reasons why to pay accession fees to CA.

	coeff	Y = 4	Y = 8
Male	0.045	-0.005	0.007
	(0.233)	(0.025)	(0.035)
Seniority	0.018	-0.002	0.003
	(0.011)*	(0.001)	(0.002)
Assistant Professor	0.332	-0.033	0.047
	(0.258)	(0.027)	(0.037)
Associate Professor	0.575	-0.054	0.073
	(0.265)**	(0.028)**	(0.036)**
Full Professor	0.064	-0.007	0.010
	(0.302)	(0.032)	(0.045)
Anglosaxon	-0.944	0.078	-0.120
	(0.246)***	(0.027)***	(0.033)***
Continental Europe	-0.554	0.052	-0.071
	(0.212)***	(0.021)***	(0.026)***
OA journals provide more citations than CA	0.307	-0.033	0.047
	(0.176)*	(0.019)*	(0.027)*
OA journals provide wider audience than CA	-0.354	0.035	-0.050
	(0.222)	(0.021)*	(0.028)*
Importance of the editorial board for choosing	-0.090	0.010	-0.014
	(0.041)**	(0.005)**	(0.007)**
Referees of OA journals stricter than CA j.	1.138	-0.083	0.085
	(0.428)***	(0.028)***	(0.051)*
OA is popular in the department	0.064	-0.007	0.010
	(0.038)*	(0.004)*	(0.006)
CA is better than OA for career	-0.664	0.064	-0.092
	(0.169)***	(0.021)***	(0.028)***
Pr (Y = n)		0.098	0.165
Obs	200		
R2	0.071		

Results: summary (I)

- Associate professors are more likely to publish in OA journals than the others (they are siblings of OA journals)
- There is:
 - gender inequality
 - geographical inequality (Anglo-Saxon countries are publishing the highest number of OA journals but the authors are then more relying upon CA journals)

Results: summary (II)

- Despite the fact that the OA tenet is that the journal must exercise peer-review and pursue editorial quality, there is a general tendency to consider by default OA worse than CA as if the publisher was fundamental in warranting quality
- Consequently OA/CA journals have so far seemed to be rather complements than substitutes
- Social norms and local incentives (e.g., habits in the dept.) are nonetheless governing submission choices
- Citations and readerships are two distinct issues (Davis, 2011). Readership (more than citations) of OA journals increases the probability of publishing in them

Some tentative policy implications

- After all publications are different currencies; a proper and self consistent "monetary policy" can be designed in order to raise the exchange rate of OA journals
- An alternative incentive system affecting social norms and governance of science (e.g. mandates incentive compatibles) can change scholars' attitude
- Enhancing the familiarity as a reader of OA journals can further create inertia in the scholars' choice while submitting
- The use of branding intended as the use of ancillary signs conveying quality perception – is reasonably providing a "publisher effect" and will positively affect the perceived quality (e.g. BE press, but also new AEA journals)