Table 1 – Characteristics of studies and evidence on 'Dunning-Kruger Effect'

Study	Country	Discipline	Type/level of participants	Sample size	Method for self-assessment of skills	Method for assessment of actual skills	Findings on self-assessed skills versus actual skills (Dunning-Kruger Effect)
Bandyopadhyay-2013	USA	Biology	Undergrad students	274	MCQs with the help of clickers	MCQs to identify different types of published articles	Overestimated
Bates-2013	UK	Law	Undergrad students	2114	Interviews of students who failed in test	Test in 7 modules of searching techniques and legal resource / information literacy	Overestimated
Black-2014	Canada	NA	Undergrad and grad students	17	Open-ended semi-structured interviews	Observations, field notes, and participant reflexive journals regarding information seeking events	Some over- and some underestimated
Boucher-2009	UK	NA	Grad students	67	Used Research Readiness Self-Assessment (RRSA) tool	Used Research Readiness Self-Assessment (RRSA) tool to test ability to use Boolean Operators	Underestimated
Brown-2009	USA	Education	Undergrad & grad students	16	Questionnaire survey	Questionnaire based on ACRL performance indicators	Weak positive correlation between variables

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Caspers-2005	USA	NA	Undergrad students	246	Questionnaire survey	Questionnaire survey on information gathering	Weak positive correlation between variables
Coombes-2009	Australia	NA	Undergrad students	40	In-depth interviews	Information searching tasks	Overestimated
Craig-2007	UK	Nursing	Undergrad students	70	Semi-structured in-depth Interviews	Objective pre- and post-tests	Positive correlation in pre-test; Overestimated in post-test
Cullen-2011	New Zealand	Medicine	Medical practitioners	38	Structured interviews	Observation of searching experience	Overestimated
De Meulemeester-2014	Belgium	Medicine	Undergrad students	1129	Used 28-item Information Literacy Self-Efficacy scale	Used 30-item Progress Test of Information Literacy	Positive correlation between variables
Easton-2003	USA	Business	Undergrad students	492	Web-based questionnaire survey	Web-based MCQ-based exam on basic computer skills	Overestimated
Ferguson-2006	USA	Biology	Undergrad students	151	Online questionnaire survey	Online questionnaire survey	Overestimated
Fischhoff-1986	USA	NA	Students and others from university community	109	Questionnaire survey	Test on search and understand an abstracting database	Overestimated

Study	Country	Discipline	Type/level of participants	Sample size	Method for self-assessment of skills	Method for assessment of actual skills	Findings on self-assessed skills versus actual skills (Dunning-Kruger Effect)
Ganley-2013	USA	Various	Undergrad students	164	Questionnaire survey	Analysis of students' theses with a rubric	Overestimated
Geffert-1998	USA	NA	Undergrad students	521	Questionnaire survey	Test of basic skills	Overestimated
Grant-2009	USA	Business	Undergrad students	173	Questionnaire survey	Online computer applications skills test	Overestimated
Gravill-2006	Canada	Business	Volunteers	67	Questionnaire survey	MCQ-based test	Underestimated
Greer-1991	USA	NA	Undergrad and grad students	694	Questionnaire survey	MCQ-based test	Overestimated
Gross-2007	USA	NA	Undergrad students	51	Questionnaire survey	Used Information Literacy Test (ILT)	Overestimated
Gross-2009	USA	Various	Undergrad students	20	Semi-structured interviews	Used Information Literacy Test (ILT)	Positive correlation between variables
Gross-2012	USA	NA	Undergrad students	577	Questionnaire survey	Used Information Literacy Test (ILT)	Overestimated
Gustavson-2011	USA	NA	Undergrad students	377	Questionnaire survey	Skills assessment test	Overestimated
Guy-2010	USA	Business	Undergrad and grad students	156	Questionnaire survey	Grading performance on basic computer applications	Overestimated in some skills and underestimated in others

Study	Country	Discipline	Type/level of participants	Sample size	Method for self-assessment of skills	Method for assessment of actual skills	Findings on self-assessed skills versus actual skills (Dunning-Kruger Effect)
Hollern-2014	USA	Law	Undergrad students	15	Used Research Readiness Self-Assessment (RRSA) tool	Quiz and assignment on finding and interpreting primary and secondary legal sources	Overestimated
Holman-2000	USA	NA	Undergrad students	65	Questionnaire survey	20-item pre- and post-tests	Overestimated
Ivanitskaya-2006	USA	Medicine	Undergrad students	308	Used Research Readiness Self-Assessment (RRSA) tool	Used Research Readiness Self-Assessment (RRSA) tool	Overestimated by some students and underestimated by others
Jackson-2013	UK	NA	Grad students	130	Used Research Readiness Self-Assessment (RRSA) tool	Used Research Readiness Self-Assessment (RRSA) tool	Overestimated
Lai-2011	Malaysia	Medicine	Undergrad students	45	Questionnaire survey	Used Fresno test of competence in evidence based medicine	Overestimated
Leeder-2014	USA	Various	Undergrad students	84	Questionnaire survey	10-item test	Overestimated
Maughan-2001	USA	Social sciences	Undergrad students	636	Questionnaire survey	Questionnaire survey	Overestimated
McCourt Larres-2003	UK	Accounting	Undergrad students	382	Questionnaire survey	MCQ-based test	Overestimated

Study	Country	Discipline	Type/level of participants	Sample size	Method for self-assessment of skills	Method for assessment of actual skills	Findings on self-assessed skills versus actual skills (Dunning-Kruger Effect)
McKeever-2013	UK	NA	Past students	60	Online questionnaire survey	Online questionnaire survey	Overestimated
Merritt-2005	USA	Management information systems	Undergrad students	55	Questionnaire survey	Used SAM Challenge (a Web-based test)	Overestimated
Molteni-2015	USA	Medicine	Undergrad and grad students	239	Questionnaire survey	MCQ-based test	Overestimated
Monoi-2005	USA	NA	Undergrad students	108	Used 12-item inventory	Searching assignments	Overestimated
Nierenberg-2015	Norway	NA	Undergrad students	434	Online questionnaire survey	Online questionnaire survey	Positive correlation in some skills and overestimated in others
O'Neil-2005	USA	Education	Undergrad students	92	Questionnaire survey	MCQ-based test	Overestimated
Oliver-2008	Australia	NA	Undergrad students	904	Questionnaire survey	Questionnaire on ability to find websites and journals	No correlation between variables
Perret-2004	Australia	Various	Grad students	107	Online questionnaire survey	Online test	Overestimated by some students and equated by others
Price-2011	Australia	Business	Undergrad students	1289	Online quiz	Online MCQ-based test	Overestimated

Study	Country	Discipline	Type/level of participants	Sample size	Method for self-assessment of skills	Method for assessment of actual skills	Findings on self-assessed skills versus actual skills (Dunning-Kruger Effect)
Ren-2000	USA	NA	Undergrad students	85	Questionnaire survey	Questionnaire survey and searching assignment	Positive correlation in pre-test; Overestimated in post-test
Robertson-2015	USA	Nursing	Grad students	26	Used 28-item Information Literacy Self-Efficacy scale	Used Beile Test of Information Literacy for Education (B-TILED)	Weak positive correlation between variables
Rosman-2015	Germany	Psychology	Undergrad and grad students	82	Used 16-item Self-Efficacy Scale for Information Searching Behavior	Used PIKE-P test and information search tasks	No correlation between variables before and positive correlation after the assessment of actual performance
Ross-2011	USA	Engineering	Undergrad students	351	Questionnaire survey	MCQ-based test	Overestimated
Schilling-2007	USA	Medicine	Undergrad students	128	Questionnaire survey	Written test and searching assignments	Overestimated
Schroeter-2015	USA	Business	Undergrad students	254	Questionnaire survey	MCQ-based test	Overestimated
Swatz-2015	USA	Medicine	Undergrad and grad students	150	Used modified version of Research Readiness Self-Assessment (RRSA) tool	Used modified version of Research Readiness Self-Assessment (RRSA) tool	Overestimated

Study	Country	Discipline	Type/level of participants	Sample size	Method for self-assessment of skills	Method for assessment of actual skills	Findings on self-assessed skills versus actual skills (Dunning-Kruger Effect)
Tepe-2015	USA	Medicine	Undergrad students	53	Used 25-item IL self-efficacy survey	Used 50-item IL knowledge test	Positive correlation between variables
Timmers-2015	Netherlands	NA	Secondary school students	50	Self-grading of information tasks	Expert grading of information tasks	Overestimated
Varga-Atkins-2004	UK	Business	Undergrad students	139	Questionnaire survey	Knowledge test	Overestimated
Vickery-2003	Australia	Biology	Undergrad students	296	Questionnaire survey	MCQ-based test	Overestimated
Weisskirch-2007	USA	Medicine	Undergrad students	25	Questionnaire survey	Knowledge test	Positive correlation between variables
Wilkinson-2009	USA	Business	Undergrad students	95	Used Extended Learning Institute (ELI) inventory	Knowledge test and assignments	Overestimated

NA = Information not available/reported

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