

# Adam Dubrowski

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3388722/publications.pdf>

Version: 2024-02-01

134  
papers

3,966  
citations

126907

33  
h-index

138484

58  
g-index

137  
all docs

137  
docs citations

137  
times ranked

3494  
citing authors

#	ARTICLE	IF	CITATIONS
1	Teaching Surgical Skills: What Kind of Practice Makes Perfect?. <i>Annals of Surgery</i> , 2006, 244, 400-409.	4.2	546
2	Verbal feedback from an expert is more effective than self-accessed feedback about motion efficiency in learning new surgical skills. <i>American Journal of Surgery</i> , 2007, 193, 105-110.	1.8	206
3	Laboratory-based vascular anastomosis training: A randomized controlled trial evaluating the effects of bench model fidelity and level of training on skill acquisition. <i>Journal of Vascular Surgery</i> , 2007, 45, 343-349.	1.1	161
4	Coordinating Progressive Levels of Simulation Fidelity to Maximize Educational Benefit. <i>Academic Medicine</i> , 2010, 85, 806-812.	1.6	148
5	Surgical skill acquisition with self-directed practice using computer-based video training. <i>American Journal of Surgery</i> , 2007, 193, 237-242.	1.8	117
6	A New Concept of Unsupervised Learning: Directed Self-Guided Learning in the Health Professions. <i>Academic Medicine</i> , 2010, 85, S49-S55.	1.6	112
7	Using a Virtual Reality Temporal Bone Simulator to Assess Otolaryngology Trainees. <i>Laryngoscope</i> , 2007, 117, 258-263.	2.0	109
8	Comparison of expert instruction and computer-based video training in teaching fundamental surgical skills to medical students. <i>Surgery</i> , 2008, 143, 539-544.	1.9	104
9	How effective is self-guided learning of clinical technical skills? It's all about process. <i>Medical Education</i> , 2009, 43, 507-515.	2.1	103
10	Measuring cognitive load: performance, mental effort and simulation task complexity. <i>Medical Education</i> , 2015, 49, 815-827.	2.1	81
11	Randomised, controlled study investigating the optimal instructor: student ratios for teaching suturing skills. <i>Medical Education</i> , 2006, 40, 59-63.	2.1	78
12	What happens to the brain in weightlessness? A first approach by EEG tomography. <i>NeuroImage</i> , 2008, 42, 1316-1323.	4.2	78
13	The application of the challenge point framework in medical education. <i>Medical Education</i> , 2012, 46, 447-453.	2.1	75
14	Thrive or overload? The effect of task complexity on novices' simulation-based learning. <i>Medical Education</i> , 2016, 50, 955-968.	2.1	70
15	The effect of illusory size on force production when grasping objects. <i>Experimental Brain Research</i> , 2000, 135, 535-543.	1.5	66
16	Application of Motor Learning Principles to Complex Surgical Tasks: Searching for the Optimal Practice Schedule. <i>Journal of Motor Behavior</i> , 2007, 39, 40-48.	0.9	65
17	Comparing self-guided learning and educator-guided learning formats for simulation-based clinical training. <i>Journal of Advanced Nursing</i> , 2010, 66, 1832-1844.	3.3	59
18	Comparing the cost-effectiveness of simulation modalities: a case study of peripheral intravenous catheterization training. <i>Advances in Health Sciences Education</i> , 2014, 19, 219-232.	3.3	58

#	ARTICLE	IF	CITATIONS
19	Objective Assessment of Temporal Bone Drilling Skills. <i>Annals of Otolaryngology, Rhinology and Laryngology</i> , 2007, 116, 793-798.	1.1	56
20	Examination stress leads to improvements on fundamental technical skills for surgery. <i>American Journal of Surgery</i> , 2008, 196, 114-119.	1.8	52
21	The effects of latex gloves on the kinetics of grasping. <i>International Journal of Industrial Ergonomics</i> , 2001, 28, 265-273.	2.6	45
22	Parabolic flight experience is related to increased release of stress hormones. <i>European Journal of Applied Physiology</i> , 2007, 100, 301-308.	2.5	44
23	Quantification of motion characteristics and forces applied to tissues during suturing. <i>American Journal of Surgery</i> , 2005, 190, 131-136.	1.8	43
24	Learning in the Simulated Setting: A Comparison of Expert-, Peer-, and Computer-Assisted Learning. <i>Academic Medicine</i> , 2011, 86, S12-S16.	1.6	43
25	Developing Criteria for Proficiency-Based Training of Surgical Technical Skills Using Simulation: Changes in Performances as a Function of Training Year. <i>Journal of the American College of Surgeons</i> , 2008, 206, 205-211.	0.5	40
26	Mental rotation: Cross-task training and generalization.. <i>Journal of Experimental Psychology: Applied</i> , 2010, 16, 349-360.	1.2	40
27	Effective Training and Assessment of Surgical Skills, and the Correlates of Performance. <i>Surgical Innovation</i> , 2005, 12, 71-77.	0.9	39
28	Computer-assisted assessment of one-handed knot tying skills performed within various contexts: a construct validity study. <i>American Journal of Surgery</i> , 2006, 192, 109-113.	1.8	38
29	Needs assessment for simulation training in neuroendoscopy: a Canadian national survey. <i>Journal of Neurosurgery</i> , 2013, 118, 250-257.	1.6	38
30	The influence of practice schedules in the learning of a complex bone-plating surgical task. <i>American Journal of Surgery</i> , 2005, 190, 359-363.	1.8	37
31	The role of collaborative interactivity in the observational practice of clinical skills. <i>Medical Education</i> , 2012, 46, 409-416.	2.1	36
32	A framework-based approach to designing simulation-augmented surgical education and training programs. <i>American Journal of Surgery</i> , 2011, 202, 344-351.	1.8	34
33	Measuring cognitive load during simulation-based psychomotor skills training: sensitivity of secondary-task performance and subjective ratings. <i>Advances in Health Sciences Education</i> , 2015, 20, 1237-1253.	3.3	34
34	A comparison of single- and multiple-stage approaches to teaching laparoscopic suturing. <i>American Journal of Surgery</i> , 2007, 193, 269-273.	1.8	33
35	Construct Validation of a Low-fidelity Endoscopic Sinus Surgery Simulator. <i>American Journal of Rhinology &amp; Allergy</i> , 2008, 22, 642-648.	2.2	33
36	Simulation in laparoscopic surgery: a concurrent validity study for FLS. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2009, 23, 161-165.	2.4	32

#	ARTICLE	IF	CITATIONS
37	Technique Acquisition in the Use of Two Thermoplasticized Root Filling Methods by Inexperienced Dental Students: A Microcomputed Tomography Analysis. <i>Journal of Endodontics</i> , 2009, 35, 1512-1517.	3.1	32
38	From Bricks to Buildings. <i>Simulation in Healthcare</i> , 2014, 9, 249-259.	1.2	30
39	THE CONTRIBUTIONS OF KINESIOLOGY TO SURGICAL EDUCATION. <i>Journal of Bone and Joint Surgery - Series A</i> , 2004, 86, 2778-2781.	3.0	30
40	What skills should simulation training in arthroscopy teach residents? A focus on resident input. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2013, 8, 945-953.	2.8	29
41	Evaluation of a Mobile Telesimulation Unit to Train Rural and Remote Practitioners on High-Acuity Low-Occurrence Procedures: Pilot Randomized Controlled Trial. <i>Journal of Medical Internet Research</i> , 2019, 21, e14587.	4.3	29
42	The coordination of hand transport and grasp formation during single- and double-perturbed human prehension movements. <i>Experimental Brain Research</i> , 2002, 145, 365-371.	1.5	28
43	Performance vs. learning curves: what is motor learning and how is it measured?. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2005, 19, 1290-1290.	2.4	28
44	Computer-based Video Instructions for Acquisition of Technical Skills. <i>Journal of Visual Communication in Medicine</i> , 2005, 28, 150-155.	0.6	27
45	Increased brain cortical activity during parabolic flights has no influence on a motor tracking task. <i>Experimental Brain Research</i> , 2008, 185, 571-579.	1.5	26
46	Construct validity of computer-assisted assessment: quantification of movement processes during a vascular anastomosis on a live porcine model. <i>American Journal of Surgery</i> , 2007, 193, 523-529.	1.8	24
47	Remote Mentoring of Point-of-Care Ultrasound Skills to Inexperienced Operators Using Multiple Telemedicine Platforms: Is a Cell Phone Good Enough?. <i>Journal of Ultrasound in Medicine</i> , 2018, 37, 2517-2525.	1.7	24
48	What skills should simulation training in arthroscopy teach residents?. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2008, 3, 433-437.	2.8	23
49	Do not teach me while I am working!. <i>American Journal of Surgery</i> , 2012, 203, 253-257.	1.8	23
50	Innovation and Design of a Web-Based Pain Education Interprofessional Resource. <i>Pain Research and Management</i> , 2011, 16, 427-432.	1.8	22
51	Repercussions of the COVID-19 pandemic on the well-being and training of medical clerks: a pan-Canadian survey. <i>BMC Medical Education</i> , 2020, 20, 385.	2.4	22
52	Addressing the severe shortage of health care providers in Ethiopia: bench model teaching of technical skills. <i>Medical Education</i> , 2009, 43, 621-627.	2.1	21
53	Action-perception dissociation in response to target acceleration. <i>Vision Research</i> , 2002, 42, 1465-1473.	1.4	20
54	Motor adaptation and manual transfer: Insight into the persistent nature of sensorimotor representations. <i>Brain and Cognition</i> , 2010, 72, 385-393.	1.8	20

#	ARTICLE	IF	CITATIONS
55	Preparation With Web-Based Observational Practice Improves Efficiency of Simulation-Based Mastery Learning. <i>Simulation in Healthcare</i> , 2016, 11, 316-322.	1.2	20
56	Surface exploration using laparoscopic surgical instruments: The perception of surface roughness. <i>Ergonomics</i> , 2005, 48, 874-894.	2.1	19
57	Operationalising elaboration theory for simulation instruction design: a Delphi study. <i>Medical Education</i> , 2015, 49, 576-588.	2.1	19
58	Target velocity effects on manual interception kinematics. <i>Acta Psychologica</i> , 2000, 104, 103-118.	1.5	18
59	Evaluating Pain Education Programs: An Integrated Approach. <i>Pain Research and Management</i> , 2011, 16, 407-410.	1.8	18
60	Performance of Resuscitation Skills by Paramedic Personnel in Chemical Protective Suits. <i>Prehospital Emergency Care</i> , 2006, 10, 254-259.	1.8	17
61	Rural family physician perspectives on communication with urban specialists: a qualitative study. <i>BMJ Open</i> , 2021, 11, e043470.	1.9	17
62	Self-directed practice schedule enhances learning of suturing skills. <i>Canadian Journal of Surgery</i> , 2013, 56, E142-E147.	1.2	17
63	The Postoperative Pain Assessment Skills Pilot Trial. <i>Pain Research and Management</i> , 2011, 16, 433-439.	1.8	16
64	Drilling sounds are used by surgeons and intermediate residents, but not novice orthopedic trainees, to guide drilling motions. <i>Canadian Journal of Surgery</i> , 2008, 51, 442-6.	1.2	16
65	Simulation-augmented education in the rehabilitation professions: A scoping review. <i>International Journal of Therapy and Rehabilitation</i> , 2013, 20, 228-236.	0.3	15
66	City mouse, country mouse: a mixed-methods evaluation of perceived communication barriers between rural family physicians and urban consultants in Newfoundland and Labrador, Canada. <i>BMJ Open</i> , 2016, 6, e010153.	1.9	14
67	Training and Evaluating Spinal Surgeons. <i>Spine</i> , 2007, 32, 2921-2925.	2.0	13
68	Pediatric Urology Training: Performance-Based Assessment Using the Fundamentals of Laparoscopic Surgery. <i>Journal of Surgical Research</i> , 2010, 161, 240-245.	1.6	13
69	Establishing assessment criteria for clinical reasoning in orthopedic manual physical therapy: a consensus-building study. <i>Journal of Manual and Manipulative Therapy</i> , 2015, 23, 27-36.	1.2	13
70	A MODULAR APPROACH FOR TRAINING UROLOGISTS IN LAPAROSCOPY. <i>BJU International</i> , 2007, 100, 1216-1218.	2.5	12
71	Temperature influences both haptic perception and force production when grasping. <i>International Journal of Industrial Ergonomics</i> , 2010, 40, 55-58.	2.6	12
72	Drilling Simulated Temporal Bones with Left-Handed Tools: A Left-Hander's Right?. <i>Annals of Otology, Rhinology and Laryngology</i> , 2007, 116, 819-826.	1.1	11

#	ARTICLE	IF	CITATIONS
73	Stress hormone stability: Processing of blood samples collected during parabolic flight. <i>Clinical Biochemistry</i> , 2007, 40, 1332-1335.	1.9	11
74	The Effect of Sound on Visual Fidelity Perception in Stereoscopic 3-D. <i>IEEE Transactions on Cybernetics</i> , 2013, 43, 1572-1583.	9.5	11
75	Effects of sound on visual realism perception and task performance. <i>Visual Computer</i> , 2015, 31, 1207-1216.	3.5	11
76	A Model for an Online Learning Management System for Simulation-Based Acquisition of Psychomotor Skills in Health Professions Education. <i>Cureus</i> , 2021, 13, e14055.	0.5	11
77	Tensiometry as a Measure of Improvement in Knot Quality in Undergraduate Medical Students. <i>Advances in Health Sciences Education</i> , 2007, 12, 331-344.	3.3	10
78	Assessing suturing skills in a self-guided learning setting: absolute symmetry error. <i>Advances in Health Sciences Education</i> , 2009, 14, 685-695.	3.3	10
79	Part versus whole: a randomized trial of central venous catheterization education. <i>Advances in Health Sciences Education</i> , 2015, 20, 1061-1071.	3.3	10
80	A model of cardiopulmonary bypass staged training integrating technical and non-technical skills dedicated to cardiac trainees. <i>Perfusion (United Kingdom)</i> , 2015, 30, 132-139.	1.0	10
81	Sensibility of a new instrument to assess clinical reasoning in post-graduate orthopaedic manual physical therapy education. <i>Manual Therapy</i> , 2015, 20, 303-312.	1.6	9
82	Development, manufacture and initial assessment of validity of a 3-dimensional-printed bowel anastomosis simulation training model. <i>Canadian Journal of Surgery</i> , 2021, 64, E484-E490.	1.2	9
83	Practice Effects on the Use of Visual and Haptic Cues During Grasping. <i>Journal of Motor Behavior</i> , 2004, 36, 327-338.	0.9	8
84	Grip force when grasping moving cylinders. <i>International Journal of Industrial Ergonomics</i> , 2004, 34, 69-76.	2.6	8
85	Quantification of process measures in laparoscopic suturing. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2006, 20, 1862-1866.	2.4	8
86	Evaluating the Influence of Goal Setting on Intravenous Catheterization Skill Acquisition and Transfer in a Hybrid Simulation Training Context. <i>Simulation in Healthcare</i> , 2012, 7, 236-242.	1.2	8
87	Procedural skills in paediatric residency: Re-evaluating the competencies. <i>Paediatrics and Child Health</i> , 2014, 19, 180-184.	0.6	8
88	The Anesthesia Crisis Scenario Builder for Authoring Anesthesia Crisis-Based Simulations. <i>IEEE Transactions on Games</i> , 2020, 12, 361-366.	1.4	8
89	Digital Interventions to Reduce Distress Among Health Care Providers at the Frontline: Protocol for a Feasibility Trial. <i>JMIR Research Protocols</i> , 2022, 11, e32240.	1.0	8
90	Unilateral basal ganglia damage causes contralesional force control deficits: A case study. <i>Neuropsychologia</i> , 2005, 43, 1379-1384.	1.6	7

#	ARTICLE	IF	CITATIONS
91	Gazeâ€down endoscopic practise leads to better novice performance on gazeâ€up displays. Medical Education, 2013, 47, 166-172.	2.1	7
92	The effects of stereoscopic 3D on knowledge retention within a serious gaming environment. Multimedia Tools and Applications, 2017, 76, 7301-7319.	3.9	7
93	Control Strategies When Intercepting Slowly Moving Targets. Journal of Motor Behavior, 2001, 33, 37-48.	0.9	6
94	Outcome errors are not necessary for learning orthopedic bone drilling. Canadian Journal of Surgery, 2009, 52, 98-102.	1.2	6
95	Control of laparoscopic instrument motion in an inanimate bench model: Implications for the training and the evaluation of technical skills. Applied Ergonomics, 2007, 38, 123-132.	3.1	5
96	An Educational Network for Surgical Education Supported by Gamification Elements: Protocol for a Randomized Controlled Trial. JMIR Research Protocols, 2020, 9, e21273.	1.0	5
97	Topology Optimization of Lightweight Structures With Application to Bone Scaffolds and 3D Printed Shoes for Diabetics. Journal of Applied Mechanics, Transactions ASME, 2022, 89, .	2.2	5
98	Effects of expertise, practice and contextual interference on adaptations to visuo-motor misalignment. Studies in Health Technology and Informatics, 2008, 132, 225-9.	0.3	5
99	Simulation as a suitable education approach for medical training in marine and off-shore industries: theoretical underpinning. International Maritime Health, 2015, 66, 164-167.	0.7	4
100	A Scenario Editor to Create and Modify Virtual Simulations and Serious Games for Mental Health Education. , 2021, , .		4
101	Extracting material parameters of silicone elastomers under biaxial tensile tests using virtual fields method and investigating the effect of missing deformation data close to specimen edges on parameter identification. Mechanics of Advanced Materials and Structures, 2022, 29, 6421-6435.	2.6	4
102	A Gamified Educational Network for Collaborative Learning. Advances in Intelligent Systems and Computing, 2021, , 266-275.	0.6	4
103	The Use of Auditory Cues in Anticipatory Control of Grasping Forces. Motor Control, 2010, 14, 255-264.	0.6	3
104	Spatial sound and its effect on visual quality perception and task performance within a virtual environment. Proceedings of Meetings on Acoustics, 2013, , .	0.3	3
105	Compliance Does Not Mean Quality. American Journal of Medical Quality, 2015, 30, 191-191.	0.5	3
106	P100: Iterative prototype development of a mobile tele-simulation unit for remote training: an update. Canadian Journal of Emergency Medicine, 2017, 19, S112.	1.1	3
107	Using a Social Educational Network to Facilitate Peer-Feedback for a Virtual Simulation. Computers in Entertainment, 2018, 16, 1-15.	1.1	3
108	A Semi-Automatic Method to Create an Affordable Three-Dimensional Printed Splint Using Open-Source and Free Software. Cureus, 2021, 13, e13934.	0.5	3

#	ARTICLE	IF	CITATIONS
109	Work-in-Progress: A Novel Data Glove for Psychomotor-Based Virtual Medical Training. , 2021, , .		3
110	Psychometric Properties of a New Tool to Assess Task-Specific and Global Competency in Cataract Surgery. Ophthalmic Surgery Lasers and Imaging Retina, 2012, 43, 229-234.	0.7	3
111	Development and Learner-Based Assessment of a Novel, Customized, 3D Printed Small Bowel Simulator for Hand-Sewn Anastomosis Training. Cureus, 2021, 13, e20536.	0.5	3
112	Medical education research: the importance of research design and a programmatic approach. Medical Education, 2010, 44, 1161-1163.	2.1	2
113	Traineesâ€™ Perceptions of Practitioner Competence During Patient Transfer. Teaching and Learning in Medicine, 2012, 24, 111-116.	2.1	2
114	P098: Development and evaluation of a mobile simulation lab with acute care telemedicine support. Canadian Journal of Emergency Medicine, 2016, 18, S111-S111.	1.1	2
115	Serious Games and Virtual Simulations Debriefing Using a Social Networking Tool. , 2012, , .		2
116	High, low and mixed fidelity simulation for continuous curvilinear capsulorhexis in cataract surgery. Journal of Contemporary Medical Education, 2013, 1, 9.	0.2	2
117	Preliminary Design and Development of a Mechanical Ventilator Using Industrial Automation Components for Rapid Deployment During the COVID-19 Pandemic. Cureus, 2021, 13, e20386.	0.5	2
118	Adapting the Gamified Educational Networking (GEN) Learning Management System to Deliver a Virtual Simulation Training Module to Determine the Enhancement of Learning and Performance Outcomes. Cureus, 2022, , .	0.5	2
119	Visual Field Magnification and Touch Perception When Exploring Surfaces With the Index Finger and a Rigid Instrument. Human Factors, 2007, 49, 679-687.	3.5	1
120	Collision error avoidance: influence of proportion congruency and sensorimotor memory on open-loop grasp control. Experimental Brain Research, 2009, 198, 445-453.	1.5	1
121	Comparing the effectiveness of simulation as adjuncts to standardized lectures, on the identification and reporting of intimidation during surgical clerkship: A mixed method randomized controlled trial. American Journal of Surgery, 2020, 220, 597-603.	1.8	1
122	Development of a novel 3D-printed multifunctional thorax model simulator for the simulation-based training of tube thoracostomy. Canadian Journal of Emergency Medicine, 2021, 23, 547-550.	1.1	1
123	Designing and Conducting Healthcare Simulations: Contributions From Social Work. Cureus, 2021, 13, e16193.	0.5	1
124	Development of a Mobile Tele-Simulation Unit Prototype for Training of Rural and Remote Emergency Health Care Providers. , 2018, , .		1
125	Trocar insertion: the neglected task of VR simulation. Studies in Health Technology and Informatics, 2008, 132, 50-2.	0.3	1
126	Procedural Training in Pediatric Residencyâ€™ Reevaluating the Competencies. Paediatrics and Child Health, 2011, , .	0.6	0



#	ARTICLE	IF	CITATIONS
127	Board 166 - Program Innovations Abstract A Utilization Focused Evaluation of Simulation within the Emergency Triage Assessment and Treatment (ETAT) Program in Malawi (Submission #969). <i>Simulation in Healthcare</i> , 2013, 8, 441.	1.2	0
128	Board 343 - Research Abstract Development and Evaluation of a Contextually Relevant Measure of Cognitive Load for Simulation-Based Psychomotor Skills Training (Submission #951). <i>Simulation in Healthcare</i> , 2013, 8, 540-541.	1.2	0
129	Board #129 - Research Abstract Identifying Conditions Affecting Complexity of Lumbar Puncture to Guide Simulation Instructional Design for Novice Learners (Submission #8730). <i>Simulation in Healthcare</i> , 2014, 9, 414.	1.2	0
130	MP28: Development and validation of a novel three-dimensional printed thorax model simulator for the simulation-based training of tube thoracostomy. <i>Canadian Journal of Emergency Medicine</i> , 2020, 22, S52-S52.	1.1	0
131	Structural flexibility of laparoscopic instruments: implication for the design of virtual reality simulators. <i>Studies in Health Technology and Informatics</i> , 2005, 111, 201-3.	0.3	0
132	Structural flexibility of laparoscopic instruments: implication for the design of virtual reality simulators. <i>Studies in Health Technology and Informatics</i> , 2006, 119, 503-5.	0.3	0
133	<i>To sim or not to sim</i> â€” choosing wisely for procedural skills training in paediatrics. <i>Paediatrics and Child Health</i> , 0, , .	0.6	0
134	<sc>PIMesh</sc> : An automatic point cloud and unstructured mesh generation algorithm for meshless methods and finite element analysis â€•with applications in surgical simulations. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2022, , e3615.	2.1	0