

## Chong Ho (Alex) Yu

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### Education

2007	<b>Public Health</b> University of Arizona, AZ	Graduate Certificate in Public Health
2007	<b>Philosophy</b> Concentration: History and Philosophy of Science Arizona State University, AZ	Ph.D.
2002	<b>Philosophy</b> Concentration: History and Philosophy of Science Arizona State University, AZ	Certificate of History and Philosophy of Science
1995	<b>Educational Psychology</b> Concentration: Measurement, Statistics & Methodological Studies Arizona State University, AZ	Ph.D.
1993	<b>Educational Psychology</b> Concentration: Instructional Psychology & Technology University of Oklahoma, OK	Master of Education
1992	<b>Human Relations</b> Concentration: International Human Relations University of Oklahoma, OK	Master of Human Relations
1993	<b>Liberal Studies</b> Concentration: Individual, Society & Philosophy Hamline University, MN	Certificate in Advanced Liberal Studies
1989	<b>Visual Arts</b> Concentration: Computer Imaging Bemidji State University, MN	Bachelor of Arts
1989	<b>Mass Communication</b> Concentration: Electronic Media Bemidji State University, MN	Bachelor of Science

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### Specialized Training

2001	<b>Cisco Networking</b> Cisco Systems, Inc.	Cisco Certified Networking Associate (CCNA)
2000	<b>Novell Netware</b> Novell, Inc.	Certified Novell Engineer (CNE 5) Certified Novell Administrator (CNA 5)
1997	<b>Microsoft Windows</b> Microsoft Corp.,	Microsoft Certified System Engineer (MCSE) Microsoft Product Specialist (MCP)

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## Work Experience

2012-present	<b>Department of Psychology</b> Azusa Pacific University, CA Teach research methods, test and measurement, statistics, & psychology of religion, conduct research in research methodologies, and cross-cultural comparisons and New Atheism, provide consulting services to APU faculty in quantitative research.	Associate Professor/ Quantitative Research Consultant at APU
7/2011- 12/2011	<b>Mary Lou Fulton Teachers College</b> Arizona State University, AZ Design experiments and quasi-experiments, set standards and key performance indicators for evaluation, disseminate research findings to local, national, and international audiences, mentor graduate students in both qualitative and quantitative studies.	Researcher/ Principal System Analyst
2005-2011	<b>Applied Learning Technologies Institute</b> Arizona State University, AZ Develop instruction-assessment feedback loops using cognitive item response theory, conduct research for supporting institutional strategic planning on instructional technology, mentor doctoral students & graduate assistants.	Director of Research & Assessment
2001-2005	<b>Assessment, Development, and Innovation/ Assessment, Research, and Evaluation</b> Cisco Systems Inc./Aries Technology Conduct psychometric research using classical analysis, Item Response Theory, data visualization, and exploratory data analysis, automate data analysis process, develop Web-based databases for item banking.	Psychometrician
2000-2001	<b>Educational Data Communication, Analysis, Research, and Evaluation</b> Division of Psychology, Arizona State University, AZ Conduct measurement and statistical analysis for program evaluation, design and manage networking infrastructure, supervise graduate assistants, organize and present in research seminars, mentor graduate students in research.	Academic Research Manager
1997-2000	<b>Instruction and Research Support</b> Information Technology, Arizona State University, AZ Develop internet-based applications for instruction and research, conduct research to evaluate the effectiveness of technology-based instruction, supervise doctoral students in dissertation committees, teach classes and workshops regarding research and evaluation, database design, and network design.	System Analyst
1996-1997	<b>Graduate College/Institutional Analysis and Data Administration</b> Perform statistical analysis and database query for educational research, develop homepages, provide computing support, and administer local area networks and Internet servers.	Management Research Analyst
1995-1996	<b>Technology Resources Lab/Student Computing Lab</b> Arizona State University, AZ Manage networks including Windows NT, Novell Netware, and PowerMac Workgroup servers, and supervise graduate assistants and workstudy workers	Supervisor

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## Publications

### Books

- Yu, C. H. (in press). Degrees of freedom in statistical analysis. New York, NY: Springer.
- Yu, C. H. (2009). Causal inferences and abductive reasoning: Between automated data mining and latent constructs. Saarbrücken, Germany: VDM-Verlag.
- Yu, C. H. (2006). Philosophical foundations of quantitative research methodology. Lanham, MD: University Press of America.

### Book Chapters

- Yu, C. H. (2013). Free will as a continuum with self-imposing constraints: Are unconsciousness, physical tendency, and free will compatible? In M. Wisse, M. Sarot, & M. Scott (Eds.), Embodied Religion (Ars Disputandi Supplement Series) (pp. 293-303). Utrecht: Ars Disputandi.
- Yu, C. H. (2012). Taking over Republicans: How Christian Rights influence US domestic and foreign policies. In Choi, C. S. and Kwan, K. M. (Eds.), Debates of Christianity and modern society: Morality, Politics, and Religious Right (pp.109-117). Hong Kong: Tien Dao Publisher.
- Yu, C. H., DiGangi, S., & Jannasch-Pennell, A. (2011). Using text mining for improving student experience management. In P. Tripathi & S. Mukerji (Eds.), Cases on innovations in educational marketing: Transnational and technological strategies (pp. 196-213). Hershey, PA: IGI Global.
- Yu, C. H. (2011). Degrees of freedom. In Miodrag Lovric (Ed), International Encyclopedia of Statistical Sciences (pp.363-365). New York: Springer.
- Yu, C. H. (2008). Is "God of the gaps" a mockery of Christian apologetics? In Lin Chou & Chi-nan Young (Ed.), Mysticism and reflection (pp. 272-286). Guangxi, China: Guangxi University Press.
- Yu, C. H. (2007). Resampling: A conceptual and procedural introduction. In Jason Osborne (Ed.), Best practices in quantitative methods (pp. 283-298). Thousand Oaks, CA: Sage Publications.
- Yu, C. H. (2006). Ethical issues of product placement and manipulation. In Prateek Kanchan (Ed.), In-film advertising: Brand positioning strategy (pp. 90-100). Hyderabad, India: ICFAI University Press.
- Yu, C. H. (2005). Test-retest reliability. In K. Kempf-Leonard (Ed.), Encyclopedia of social measurement, Vol. 3 (pp. 777-784). San Diego, CA: Academic Press.
- Behrens, J. T., & Yu, C. H. (2003). Exploratory data analysis. In J. A. Schinka & W. F. Velicer, (Eds.), Handbook of psychology Volume 2: Research methods in psychology (pp. 33-64). New Jersey: John Wiley & Sons, Inc.
- Yu, C. H. (1999). A component analysis of universal human nature, Chinese great tradition, small tradition, and traits of Hong Kong culture. In Falin Gao (Eds.), Chung Kwok Yin Han Chung Kwok Yin [Chinese observing Chinese] (pp.82-92). Brampton, Ont., Canada: Mirror Books Ltd.
- Yu, C. H., & Marcus-Mendoza, S. (1993). Attitudes of correctional staff. In B. R. Fletcher, L. D. Shaver, & D. G. Moon (Eds.), Women prisoners: A forgotten population (pp.111-118). Westport, Connecticut: Praeger.
- Sargent, E., Marcus-Mendoza, S., & Yu, C. H. (1993). Abuse and the women prisoner. In B. R. Fletcher, L. D. Shaver, & D. G. Moon (Eds.), Women prisoners: A forgotten population (pp.55-64). Westport, Connecticut: Praeger.

## Journals

- Yu, C. H. (2012). Beyond Gross National Product: An exploratory study of the relationship between Program for International Student Assessment Scores and well-being indices. Review of European Studies, 4. doi:10.5539/res.v4n5p119 Retrieved from <http://www.ccsenet.org/journal/index.php/res/article/view/20478/14159> [Mirror]
- Yu, C. H. (2012). Examining the relationships among academic self-concept, instrumental motivation, and TIMSS 2007 science scores: A cross-cultural comparison of five East Asian countries/regions and the United States. Educational Research and Evaluation, 18, 713-731. DOI:10.1080/13803611.2012.718511. Retrieved from <http://www.tandfonline.com/doi/full/10.1080/13803611.2012.718511>
- Yu, C. H., Jannasch-Pennell, A., DiGangi, S., & Kaprolet, C. (2012). A data mining approach to compare American and Canadian Grade 10 students in PISA 2006 Science test performance. Journal of Data Science, 10, 441-464. Retrieved from [http://www.jds-online.com/file\\_download/362/JDS-1064.pdf](http://www.jds-online.com/file_download/362/JDS-1064.pdf)
- Yu, C. H. (2012). Can absence of evidence be treated as evidence of absence: An analysis of Victor Stenger's argument against the existence of God. China Graduate School of Theology Journal, 52, 133-152.
- Yu, C. H., DiGangi, S., & Jannasch-Pennell, A. (2012). A time-lag analysis of the relationships among PISA scores, scientific research publication, and economic performance. Social Indicators Research, 107, 317-330. doi: 10.1007/s11205-011-9850-5.
- Yu, C. H., Jannasch-Pennell, A., & DiGangi, S. (2011). Compatibility between text mining and qualitative research in the perspectives of grounded theory, content analysis, and reliability. Qualitative Report, 16, 730-744. Retrieved from <http://www.nova.edu/ssss/QR/QR16-3/you.pdf>
- Yu, C. H., Brewer, L., Jannasch-Pennell, A., & DiGangi, S. (2010). Adopting Web 2.0 for instruction: The effects of faculty rank and employment status. Journal of Technology Integration in Classroom, 2(2), 131-143.
- Yu, C. H. (2010). A model must be wrong to be useful: The role of linear modeling and false assumptions in theoretical explanation. Open Statistics and Probability Journal, 2, 1-8. Retrieved from <http://www.bentham.org/open/tospj/openaccess2.htm>
- Yu, C. H. (2010). Exploratory data analysis in the context of data mining and resampling. International Journal of Psychological Research, 3(1), 9-22. Retrieved from <http://mvint.usbmed.edu.co:8002/ojs/index.php/web/article/download/455/460>
- Yu, C. H., DiGangi, S., Jannasch-Pennell, A., & Kaprolet, C. (2010). A data mining approach for identifying predictors of student retention from sophomore to junior year. Journal of Data Science, 8, 307-325. Retrieved from <http://www.jds-online.com/>
- Yu, C. H. (2009). Book review: Designing and conducting mixed methods research. Organizational Research Methods, 12, 801-804.
- Yu, C. H. (2009). Clash of civilizations: Its misconceptions and challenges to Christians. China Graduate School of Theology Journal, 47, 51-73.
- Yu, C. H., DiGangi, S., Jannasch-Pennell, A., & Kaprolet, C. (2009). An exploratory crossover study of learner perceptions toward use of audio in multimedia-based tutorials. Journal of Educational Computing Research, 40, 23-46.
- Tsui, W. K., & Yu, C. H. (2009). The theory of time of St. Augustine and its theological reflections. Jian Dao Journal, 31, 25-52.
- Yu, C. H. (2008). Compatibility between evolutionary biology and classical Catholic Natural Law Theory. China Graduate School of Theology Journal, 45, 177-209
- Yu, C. H., DiGangi, S., Jannasch-Pennell, A., & Kaprolet, C. (2008). Profiling students who take online courses using data mining methods. Online Journal of Distance Learning Administration, 11(2) Retrieved from <http://www.westga.edu/~distance/ojdla/summer112/you112.html>

- Yu, C. H., DiGangi, S., & Jannasch-Pennell, A. (2008). The role of abductive reasoning in cognitive-based assessment. Elementary Education Online, 7(2), 310-322. Retrieved from <http://ilkogretim-online.org.tr/vol7say2/v7s2m6.pdf>.
- Yu, C. H., Jannasch-Pennell, A., & DiGangi, S. (2008). A non-technical approach for illustrating Item Response Theory. Journal of Applied Testing Technology, 9(2). Retrieved from <http://www.testpublishers.org/jattmain.htm>
- Yu, C. H. (2007). Causation in quantitative research methodologies from path modeling, SEM to TETRAD. Theory and Science, 9 Retrieved from <http://theoryandscience.icaap.org/content/vol9.3/chong.html>
- Yu, C. H., Jannasch-Pennell, A., DiGangi, S., Kim, C., & Andrews, S. (2007). A data visualization and data mining approach to response and non-response analysis in survey research. Practical Assessment, Research and Evaluation, 12(19). Retrieved from <http://pareonline.net/getvn.asp?v=12&n=19>
- DiGangi, S., Kilic, Z., Yu C. H., Jannasch-Pennell, A, Long, L., Kim, C., Stay, V., & Kang, S. (2007). 1 to 1 computing in higher education: A survey of technology practices and needs. AACE Journal, 15(4) Retrieved from [http://www.editlib.org/index.cfm?fuseaction=Reader.ViewAbstract&paper\\_id=22813](http://www.editlib.org/index.cfm?fuseaction=Reader.ViewAbstract&paper_id=22813)
- Yu, C. H., DiGangi, S., Jannasch-Pennell, A., Stay, V., Lo, W., & Kilic, Z. (2007). Multi-sensory cognitive learning as facilitated in a multimedia tutorial for Item Response Theory. Journal of Systemics, Cybernetics and Informatics, 5, 13-22. Retrieved from <http://www.iiisci.org/Journal/SCI/Abstract.asp?var=&id=P649090>
- Yu, C. H., Osborn-Popp, S., DiGangi, S., & Jannasch-Pennell, A. (2007). Assessing unidimensionality: A comparison of Rasch Modeling, Parallel Analysis, and TETRAD. Practical Assessment, Research and Evaluation, 12 Retrieved from <http://pareonline.net/pdf/v12n14.pdf>
- Yu, C. H. (2007). Inference to the best explanation and Dembski-significance testing model for the intelligent design argument. China Graduate School of Theology Journal, 43, 179-204
- Yu, C. H. (2007). Is automated data mining an emerging paradigm that can supersede hypothesis testing? Theory and Science, 9 Retrieved from <http://theoryandscience.icaap.org/content/vol9.2/Chong.html>.
- Sonmez, S.; Apostolopoulos, Y; Yu, C. H.; Mattila, A., & Yu, L. C. (2006). Binge drinking and casual sex on spring break. Annals of Tourism Research, 33, 895-917
- Yu, C. H. (2006). Relative references, free will, and pre-destination. China Graduate School of Theology Journal, 41, 109-129.
- Yu, C. H. (2006). Nussbaum's Cosmopolitanism and world citizenship in the context of globalization. Open Times, 183, 58-67.
- Yu, C. H. (2006). SAS programs for generating Winsteps control files and Web-based presentations. Applied Psychological Measurement, 30, 247-248.
- Yu, C. H. (2005). Why is the world inflamed by hatred? An investigation of political, economic, and psychological factors to racial conflicts. Journal of Social Theory, 8, 411-425.
- Yu, C. H. (2005). Is "God of the gaps" a mockery of Christian apologetics? Logos and Pneuma Chinese Journal of Theology, 23, 229-245.
- Tsui, W. K., & Yu, C. H. (2005). The prospect of doing Evangelical Theology: How can we break the cycle described by Mark Noll and Tony Campollo? China Graduate School of Theology Journal, 39, 77-97
- Yu, C. H., & Osborn, S. (2005). Test equating by common items and common subjects: Concepts and applications. Practical Assessment Research and Evaluation, 10 Retrieved from <http://pareonline.net/pdf/v10n4.pdf>
- Yu, C. H. (2005). Re-examining the myths: Are the Muslims tolerant and the Catholics intolerant? China Graduate School of Theology Journal, 38, 143-160
- Yu, C. H. (2004). Advance in Monte Carlo Simulations and robustness study and their implications for the dispute in philosophy of mathematics. Minerva, 8, 62-90. Retrieved from <http://www.mic.ul.ie/stephen/vol8/montecarlo.pdf>

- Yu, C. H. (2004). The clash between Galileo astronomy and Catholic theology: Who is the bad theologian? China Graduate School of Theology Journal, 37, 51-65.
- Yu, C. H. (2004). Playing God, God of the Gaps and passive euthanasia. Discourse, 10, 33-52.
- Yu, C. H. (2004). Aesthetics of photography: Combining the viewer's and the artist's standpoints. Art Criticism, 19, 63-74
- Yu, C. H. (2004). Philosophical assumptions in the discussion of Irreducible Complexity, naturalism, demarcation criterion, probability, law, and adequate explanation. Jian Dao, 21, 109-127.
- Yu, C. H. (2003). Resampling methods: Concepts, applications, and justification. Practical Assessment Research and Evaluation, 8(19). Retrieved from <http://pareonline.net/getvn.asp?v=8&n=19>
- Yu, C. H., & Stockford, S. (2003). Evaluating spatial- and temporal-oriented multi-dimensional visualization techniques for research and instruction. Practical Assessment, Research & Evaluation, 8(17). Retrieved from <http://pareonline.net/getvn.asp?v=8&n=17>
- Yu, C. H. (2003). Testability of the Intelligent Design argument in the perspective of quantitative methodology. Jian Dao Journal, 20, 89-102.
- Yu, C. H. (2003). Misconceived relationships between logical positivism and quantitative research. Research Method Forum Retrieved from <http://www.aom.pace.edu/rmd/2002forum.html>
- Yu, C. H., Andrews, S., Winograd, D., Jannasch-Pennell, A., & DiGangi, S. (2002). Teaching factor analysis in terms of variable space and subject space using multimedia visualization. Journal of Statistics Education, 10. Retrieved from <http://www.amstat.org/publications/jse/v10n1/you.html>
- Apostolopoulos, Y., Sonmez, S., and Yu, C. H. (2002). HIV-risk behaviors of American spring-break vacationers: A case of situational disinhibition? International Journal of STD and AIDS, 13(11): 733-743.
- Yu, C. H. (2001). Philosophical foundations of causality in statistical modeling. Research Method Forum, 6. Retrieved from <http://www.aom.pace.edu/rmd/2001forum.html>
- Ohlund, B., Yu, C.H., DiGangi, S., & Jannasch-Pennell, A. (2001). Impact of asynchronous and synchronous Internet-based communication on collaboration and performance among K-12 teachers. Journal of Educational Computing Research, 23, 435-450.
- Yu, C. H., Jannasch-Pennell, A., & DiGangi, S. (1999). Opportunities and options for Web-enabled databases: Comparing in choosing the right software for virtual courses and communities. International Journal of Educational Technology, 1. Retrieved from <http://www.outreach.uiuc.edu/ijet/v1n1/you/index.html>
- Yu, C. H., DiGangi, S., Jannasch-Pennell, A., & Wasson, B. (1998). Using SAS/IntrNet for evaluating Web-based instruction. Journal of Educational Media International, 35, 157-161.
- Yu, C. H., & Behrens, J. T. (1995). Applications of scientific multivariate visualization to behavioral sciences. Behavior Research Methods, Instruments, and Computers, 2, 264-271.
- Sargent, E., Marcus-Mendoza, S., & Yu, C. H. (1995). Changing perceptions of the etiology of crime: The relationship between abuse and female criminality. Journal of the Oklahoman Criminal Justice Research Consortium, 1, 13-23. Retrieved from <http://www.doc.state.ok.us/DOCS/OCJRC/OCJRC94/940650B.HTM>

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### Academic Presentations

- Yu, C. H. (2013, October). Re-examining the interpretive framework of psychology of religion. Paper accepted by Psychology and the Other Conference, Cambridge, MA.
- Yu, C. H. (2013, March). Integrating text mining and content analysis in studying psychology of religion. Paper presented at Computer-Assisted Qualitative Data Analysis Conference, Marburg, Germany.

- Yu, C. H. (2012, September). Blurring the line between confirmation and exploration: Model comparison of structural equation modeling in SAS. Paper presented at Western Users of SAS Software Conference, Long Beach, CA.
- Yu, C. H. (2012, August). Are unconsciousness, physical tendency, and free will compatible? Paper presented at the 19th conference of the European Society for Philosophy of Religion, Soesterberg, Netherlands.
- Yu, C. H. (2012, April). A cross-cultural study of the relationships among academic self-concept, instrumental motivation, instructional strategies, and TIMSS 2007 math/science scores. Paper presented at the Annual Meeting of American Educational Research Association, Vancouver, BC, Canada.
- Yu, C. H. (2011, October). Principal component regression as a countermeasure against collinearity. Paper presented at Western Users of SAS Software Conference, San Francisco, CA.
- Yu, C. H., DiGangi, S., & Jannasch-Pennell, A. (2011, April). A time-lag analysis of the relationships among PISA scores, scientific research publication, and economic performance. Paper presented at Annual Meeting of American Educational Research Association, New Orleans, LA.
- Yu, C. H., Jannasch-Pennell, A., & DiGangi, S. (2011, April). Beyond using GDP for policy-making: An exploratory study of the relationship between PISA math/science test scores and national well-being. Paper presented at Annual Meeting of American Educational Research Association, New Orleans, LA.
- Ziker, C., & Yu, C. H. (2011, March). Predictive power of Health Belief Model among high school students. Paper presented at American Association for Physical Activity and Recreation, San Diego, CA.
- Yu, C. H., Jannasch-Pennell, A., & DiGangi, S. (2010, August). An examination of reliability of text mining. Paper presented at Joint Statistical Meetings. Vancouver, BC, Canada.
- Yu, C. H., DiGangi, S., & Jannasch-Pennell, A. (2010, May). Comparing American and Canadian Grade 10 students in PISA science test performance using data mining. Paper presented at the Annual meeting of the American Educational Research Association, Denver, CO.
- Yu, C. H., Jannasch-Pennell, A., & DiGangi, S. (2010, April). Developing discovery-based training modules for science education using structural reporting and natural language processing in Wolfram Alpha. Paper presented at Technology, Colleges, and Community Worldwide Online Conference. Honolulu, HI.
- Yu, C. H. (2010, April). Alternate research methodologies for non-statisticians. Microcomputer in Education Conference, Tempe, AZ
- Brewer, L., Yu, C. H., Jannasch-Pennell, A., Digangi, S., & Kaprolet, C. (2009, April). Adopting Web 2.0 for instruction: The effects of faculty rank and employment status. Paper presented at the Annual meeting of the American Educational Research Association, San Diego, CA.
- Brewer, L., Yu, C. H., Jannasch-Pennell, A., Digangi, S., & Kaprolet, C. (2009, April). Faculty privacy and intellectual property concerns and Web 2.0 technologies. Paper presented the Annual meeting of the American Educational Research Association, San Diego, CA.
- Yu, C. H., Brewer, L., Jannasch-Pennell, A., DiGangi, S., & Kaprolet, C. (2008, November). An across the institution approach for understanding perceptions of open source. Paper presented at WCET Conference, Phoenix, AZ.
- Brewer, L., Yu, C. H., DiGangi, S., & Jannasch-Pennell, A. (2008, October). Crafting a campus identity: First year students, residential life and social networking. Paper presented at the Annual Meeting of EDUCAUSE, Orlando, FL.
- Yu, C. H., Jannasch-Pennell, A., DiGangi, S., & Kaprolet, C. (2008, August). An examination of the relationship between high school technological-oriented courses and college retention using regression modeling. presented at the 2008 Joint Statistical Meeting, Denver, CO.
- Brewer, L., kilic, Z., Yu, C. H., DiGangi, S., & Jannasch-Pennell, A. (2008, May). Collaborative Web 2.0 tools in higher education: Faculty experience with Google Apps and Wikis. Paper presented at the Southwest Institute for Learning with Technology Conference, Flagstaff, AZ.

- Yu, C. H., DiGangi, S., Jannasch-Pennell, A., & Kim, C. (2008, March). Profiling online students using data mining and data visualization. Paper presented at the Annual meeting of the American Educational Research Association, New York, NY
- Yu, C. H., Jannasch-Pennell, A., DiGangi, S., Stay, V., & Moore, B. (2007, March). Open source applications for training teachers in developing assessment systems. Paper presented at the Annual meeting of the Society of Information Technology and Teacher Education, Las Vegas, NV.
- Yu, C. H., DiGangi, S., Jannasch-Pennell, A., Kaprolet, C. (2007, March). A crossover study of learner attitude towards use of audio in multimedia-based tutorials. Paper presented at the Annual meeting of the Society of Information Technology and Teacher Education, Las Vegas, NV.
- Yu, C. H., DiGangi, S., Jannasch-Pennell, A., & Gorin, J. (2007, October). A multidisciplinary approach to cognitive-based assessment. Paper presented at the Annual Meeting of EDUCAUSE, Seattle, WA.
- Yu, C. H., Jannasch-Pennell, A., DiGangi, S., Kim, C., & Andrews, S. (2007, August). A data visualization/mining approach to response and non-response analysis in survey research. Paper presented at the 2007 Joint Statistical Meeting, Salt Lake City, UT.
- Yu, C. H. (2007, April). Defending linearity and simplicity in the perspective of history of science. Paper presented at the Annual meeting of the American Educational Research Association, Chicago, IL.
- Yu, C. H. (2007, April). Causation in quantitative research methodologies from Pearson to Glymour. Paper presented at the Annual meeting of the American Educational Research Association, Chicago, IL.
- Yu, C. H. (2007, March). No child left untested: Enhancing assessment by item banking. Paper presented at the 2007 Microcomputer in Education Conference, Tempe, AZ.
- Yu, C. H., DiGangi, S., Jannasch-Pennell, A., Lo, W. J., Kaprolet, C., & Kim, C. (2007, February). A data mining approach to differentiate predictors of retention between online and traditional students. presented at the 2007 EDUCAUSE Southwest Regional Conference, Austin, TX.
- Yu, C. H., DiGangi, S., & Jannasch-Pennell, A. (2006, October). Between automation and exploration: SAS graphing techniques for visualization of survey data. Western Users of SAS Software Conference, Irvine, CA.
- Yu, C. H. (2006, October). Examples of data manipulation in SAS: Filling in "known" missing data. Western Users of SAS Software Conference, Irvine, CA.
- Yu, C. H., Freeman, R., Jannasch-Pennell, A., DiGangi, S., Kim, C., & Stay, V. (2006, August). Interactive animation for learning Item Response Theory and misfit identification. Paper presented at the Joint Statistical Meeting, Seattle, WA.
- Yu, C. H., Jannasch-Pennell, A., Stay, V., DiGangi, S., Kim, C., Long L., Lo, W. J., Kilic, Z., Kang, S., & Freeman, R. (2006, July). Multi-sensory cognitive learning as facilitated in a FLASH tutorial for Item Response Theory. Paper presented at International Conference on Education and Information Systems, Technologies and Applications, Orlando, FL.
- Yu, C. H. (2006, April). Quantitative methodology in the perspectives of Abduction, Deduction, and Induction. Paper presented at the Annual Meeting of American Educational Research Association, San Francisco, CA.
- Yu, C. H. (2006, March). Emerging research methodology of educational psychology and technology. Paper presented at the 24th Annual Microcomputer in Education Conference, Tempe, AZ.
- Kilic, Z., Yu, C. H., DiGangi, S., & Jannasch-Pennell, A. (2006, February). Accessing our research bibliographies online: Better or just different? Paper presented at the 2006 EDUCAUSE Southwest Regional Conference, Austin, TX.
- Choi, H., Yu, C. H., Jannasch-Pennell, A., & DiGangi, S. (2005, October). "Human reasoning transcends computation": Re-examination of cognitive models from ACT to Bayes Net and their implications to educational psychology and technology. Paper presented at Arizona Educational Research Organization Conference, Phoenix, AZ.
- Yu, C. H., & Wong, J. W. (2005, March). Visualize your invisible creativity: Empowerment by digital photography. Paper presented the 23th Annual Microcomputer in Education Conference, Tempe, AZ.



- Yu, C. H. (2004, August). History of science and statistical education: Examples from Fisherian and Pearsonian schools. Paper presented at the 2004 Joint Statistical Meeting, Toronto, Canada.
- Yu, C. H. (2004, April). Diversity of probabilistic inferences. Paper presented at the Annual Meeting of American Educational Research Association, San Diego, CA.
- Yu, C. H., & Wong, J. W. (2003, November). Using SAS for classical item analysis and option analysis. Paper presented at the 2003 Western Users of SAS Software conference, San Francisco, CA.
- Yu, C. H. (2002, October). Assumptions and interventions of probabilistic causal models. Paper presented at the 2002 Annual Meeting of the Arizona Educational Research Association, Tempe, AZ.
- Yu, C. H. (2002, September). An overview of remedial tools for violations of parametric test assumptions in the SAS system. Paper presented at the 2002 Western Users of SAS Software conference, San Diego, CA.
- Yu, C. H. (2002, September). Automation and visualization of distractor analysis using SAS/GRAPH. Paper presented at the 2002 Western Users of SAS Software conference, San Diego, CA.
- Yu, C. H. (2002, April). A philosophical investigation of causal interpretation in structural equation models. Paper presented at the Annual Meeting of the American Education Researcher Association SIG: Structural Equation Modeling, New Orleans, LA.
- Stockford, S., Thompson, M., Lo, W. J., Chen, Y. H., Green, S., & Yu, C. H. (2001, October). Confronting the statistical assumptions: New alternatives for comparing groups. Paper presented at the Annual Meeting of the Arizona Educational Researcher Organization, Tempe, AZ.
- Yu, C. H., & Ohlund, B. (2001, October). An inquiry into the existence of theoretical distributions and its implication to educational & policy researchers. Paper presented at the Annual Meeting of the Arizona Educational Researcher Organization, Tempe, AZ.
- Apostolopoulos, Y., Sonmez, S., & Yu, C. H. (2001, October). Health-risk behaviors of long haul truckers in the Southwest. Paper presented at the Annual Meeting of the American Public Health Association, Atlanta, GA.
- Yu, C. H., & Stockford, S. (2001, August). Comparison of spatial- and temporal-oriented multi-dimensional visualization techniques. Paper presented at the Joint Statistical Meetings, Atlanta, GA.
- Yu, C. H., & Ho, W. J. (2001, August). Using multimedia to visualize the concepts of degree of freedom, perfect-fitting, and over-fitting. Paper presented at the Joint Statistical Meetings, Atlanta, GA.
- Yu, C. H., & Ho, W. J. (2001, August). Using multimedia to visualize relationships between ANOVA and regression. Paper presented at the Joint Statistical Meetings, Atlanta, GA.
- Yu, C. H. (2001, April). An introduction to computing and interpreting Cronbach Coefficient Alpha in SAS. Paper presented at the SAS User Group International Conference, Long Beach, CA.
- Yu, C. H. (2001, April). Misconceived relationships between logical positivism and quantitative methods. Paper presented at the Annual Meeting of the American Educational Researcher Association, Seattle, WA.
- Huston, D., & Yu, C. H. (2001, April). Educational measurement and research in large-scale on-line instructional systems. Paper presented at the Annual Meeting of the American Educational Researcher Association, Seattle, WA.
- M., Roberts, Jannasch-Pennell, A., DiGangi, S. A., & Yu, C. H. (2001, April). Growing pains, small successes and significant victories of a community-based reading program. Paper presented at the Annual Conference of the National Association of School Psychologists.
- Yu, C. H. (2001, January). Strategies of research and evaluation in educational technology. Paper presented at Teaching and Technology Conference, Tucson, AZ.
- Miltiadou, M., & Yu, C. H. (2000, October). Validation of the online technologies self-efficacy survey. Paper presented at the Association for Educational Communications and Technology International Convention, Denver, CO.

- Yu, C. H., Wijesuriya, R., DiGangi, S., Jannasch-Pennell, A., & Towill, L. (2000, October). Collaborative design and implementation of a multimedia course in a large institution. Paper presented at the Association for Educational Communications and Technology (AECT) International Convention, Denver, CO.
- Yu, C. H., Jannasch-Pennell, A., & DiGangi, S. (2000, September). Using SAS for analyzing website traffic. Paper presented at Western Users of SAS Software Conference, Scottsdale, AZ.
- Yu, C. H. (2000, September). An overview of remedial tools for collinearity in SAS. Paper presented at the Western Users of SAS Software Conference, Scottsdale, AZ.
- Yu, C. H. (2000, September). Using SAS/Insight for exploratory data analysis and data visualization. Paper presented at the Western Users of SAS Software Conference, Scottsdale, AZ.
- Wasson, B., & Yu, C. H. (2000, August). Developing online surveys. Paper presented at Arizona Technology Conference, Mesa, AZ.
- Yu, C. H., DiGangi, S., Jannasch-Pennell, A., Cohn, S., & Collins, C. (2000, April). Gathering and scattering: A study of the relationship between mental modeling and problem solving. Paper presented at the Annual Meeting of the American Educational Researcher Association, New Orleans, LA.
- Yu, C. H., Jannasch-Pennell, A., & DiGangi, S. (2000, April). Using linear and interactive media in teaching intermediate statistics courses: A study of the relationship between knowledge nature and multimedia type. Paper presented at the Annual Meeting of the American Educational Researcher Association, New Orleans, LA.
- Yu, C. H., & Wasson, B. (2000, March). Using Web-based databases for online tests, surveys, and reports. Paper presented at 20th Annual Microcomputer in Education Conference, Tempe, AZ.
- Yu, C. H., Ohlund, B., DiGangi, S., & Jannasch-Pennell, A. (2000, February). Estimating the reliability of self-report data for Web-based instruction. Paper presented at the Annual Meeting of the Association for Educational Communications and Technology, Long Beach, CA.
- Yu, C. H., DiGangi, S., & Jannasch-Pennell, A. (1999, November). Using Web-based linear movies and modularized slide shows for teaching statistics courses. Paper presented at the Annual Meeting of the Society for Computer in Psychology, Los Angeles, CA.
- DiGangi, S., Jannasch-Pennell, A., & Yu, C. H. (1999, November). Using online intelligent assessment tools for Multilevel Academic Skills Inventory. Paper presented at the Annual Meeting of the Society for Computer in Psychology, Los Angeles, CA.
- Yu, C. H., Ohlund, B., Winograd, D., Andrews, S., DiGangi, S., & Jannasch-Pennell, A. (1999, August). Incoherence and the parametric test framework: Misconceived relationships among sample, sampling distribution, and population. Paper presented at 1999 Joint Statistical Meeting, Baltimore, MD.
- Yu, C. H., DiGangi, S., Winograd, D., Jannasch-Pennell, A., Ohlund, B., & Andrews, S. (1999, August). Circular dependency on treatment effectiveness study, instrument validation, and performance appraisal. Paper presented at 1999 Joint Statistical Meeting, Baltimore, MD.
- Ohlund, B., Jannasch-Pennell, A., DiGangi, S., Andrews, S., & Yu, C. H. (1999, June). An analysis of web-based communications and collaboration among K-12 educators. Paper presented at Ed-Media 99--World Conference on Educational Multimedia, Hypermedia and Telecommunications, Seattle, WA.
- Ohlund, B., Andrews, S., Yu, C. H., Jannasch-Pennell, A., & DiGangi, S. (1999, April). Impact of asynchronous and synchronous Web-based communication on collaboration and performance among K-12 teachers. Paper presented at the Annual Meeting of the American Educational Researcher Association. Montreal, QB, Canada.
- Irvine, S., Jannasch-Pennell, A., DiGangi, S.A., & Yu, C. H. (1999, April). Viability of the digital portfolio as an evaluation tool in K-6 education. Paper presented at the Annual Meeting of the American Educational Researcher Association, Montreal, QB, Canada.
- Yu, C. H. (1999, March). Web-enabled databases. Paper presented at Microcomputer in Education Conference, Tempe, AZ.

- Yu, C. H., Winograd, D., DiGangi, S., Wasson, B., Jannasch-Pennell, A., & Andrews, S. (1999, February). Using Web-enabled databases for online instruction. Paper presented at the Annual Meeting of American Educational Communications and Technology, Houston, TX.
- Andrews, S., Winograd, D., DiGangi, S., Jannasch-Pennell, A., & Yu, C. H. (1999, February). Designing online instruction using multidisciplinary approaches. Paper presented at the Annual Meeting of American Educational Communications and Technology, Houston, TX.
- Jannasch-Pennell, A., DiGangi, S., Yu, C. H., Andrews, S., & Babb, J. (1999, February). Impact of instructional grouping on navigation and student learning in a Web-based learning environment. Paper presented at the Annual Meeting of American Educational Communications and Technology, Houston, TX..
- Yu, C. H., Winograd, D., Andrews, S., DiGangi, S., & Jannasch, A. (1998, August). Visualizing collinearity, VIF, and orthogonalization in subject space. Paper presented at the Joint Statistical Meeting of American Statistical Association, Dallas, TX.
- Yu, C. H., Andrews, S., Winograd, D., Jannasch, A., & DiGangi, S. (1998, August). Visualizing factor analysis in variable space and subject space. Paper presented at the Joint Statistical Meeting of American Statistical Association, Dallas, TX.
- Andrews, S., Yu, C. H., Winograd, D., & Jannasch, A. (1998, March). Animated biplot for factor analysis in hyperspace. Paper presented at Western Statistics Teacher Conference, Colorado Springs, CO.
- Winograd, D., Yu, C. H., Andrews, S., & DiGangi, S. (1998, March). Visualizing collinearity in regression analysis. Paper presented at Western Statistics Teacher Conference, Colorado Springs, CO.
- Yu, C. H., Huston, D., Dugan, J., & Behrens, J. T. (1996, August). Multivariate graphics are useful (When used appropriately). Paper presented at the Annual Meeting of American Psychological Society, San Francisco, CA.
- Yu, C. H., Huston, D., Dugan, J., & Behrens, J. T. (1996, April). Bring the world into the classroom with internet resources. Paper presented at the Annual Meeting of American Educational Researcher Association.
- Yarbrough, B. C., & Yu, C. H. (1996, February). Making statistics visually meaningful. Paper presented at the Annual Meeting of American Educational Communications and Technology, Indianapolis, IN.
- Yu, C. H., & Behrens, J. T. (1995, November). The alignment framework for data visualization: Relationships among research goals, data type, and multivariate visualization techniques. Paper presented at the Annual Meeting of the Society for Computer in Psychology, Los Angeles, CA.
- Yu, C. H., & Behrens, J. T. (1995, August). One-stop internet for statistical education. Paper presented at the Annual Meeting of the American Statistical Association, Orlando, FL.
- Behrens, J. T., Yu, C. H., & Rowe, W. (1995, August). Meta-analysis of White Racial Identity Attitude Scale (RIAS-W). Paper presented at the Annual Meeting of the American Psychological Association., New York, NY.
- Yu, C. H., Anthony, S., & Behrens, J. T. (1995, April). Identification of misconceptions in learning central limit theorem and evaluation of computer-based instruction as a remedial tool. Paper presented at the Annual Meeting of the American Educational Researcher Association, San Francisco, CA.
- Yu, C. H., & Behrens, J. T. (1994, November). Improving the interpretability of research results through multivariate visualization. Paper presented at the Annual Meeting of the Society for Computer in Psychology, St. Louis, MO.
- Yu, C. H., Behrens, J. T., Curda, S. K., & Baharestani, H. (1994, August). Identification of misconceptions concerning statistical power with dynamic graphics as a remedial tool. Paper presented at the Annual Meeting of the American Statistical Association, Toronto, Ontario, Canada.
- Behrens, J. T. & Yu, C. H. (1994, June). The visualization of multi-way interactions and high-order terms in multiple regression. Paper presented at the Annual Meeting of the Psychometric Society, Urbana-Champaign, IL.
- Yu, C. H. (1994, April). Induction? Deduction? Abduction? Is there a logic of EDA? Paper presented at the Annual Meeting of American Educational Researcher Association, New Orleans, LA. (ERIC Document Reproduction Service No. ED 376 173)

Behrens, J. T., Yu, C. H., & Pensabene, T. (1993, April). Addressing misconceptions in learning power analysis. Paper presented at the Annual Meeting of the American Educational Researcher Association, Atlanta, GA.

Marcus-Mendoza, S., Sargent, E., & Yu, C. H. (1993, August). Incidence of abuse among female inmates in Oklahoma. Paper presented at the Annual Meeting of the American Psychological Association, Toronto, Ontario, Canada.

Yu, C. H. (1992, November). Motivational variables and computer simulation for teaching correlation and regression. Paper presented at the Annual Meeting of the Rocky Mountain Educational Research Association, Stillwater, OK.

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### **Peer review board**

Applied Psychological Measurement

Behavior Research Methods

Cypriot Journal of Educational Sciences

Educational Psychology

Educational Researcher

IEEE Visualization

International Conference for Education and Information Systems, Technologies and Applications

International Conference on Society and Information Technologies

International Journal of Human Computer Studies

International Multi-Conference on Society, Cybernetics and Informatics

International Symposium on Peer Reviewing

International Symposium on Social and Organizational Informatics & Cybernetics

Journal of Education Computing Research

Journal of Statistic Education

Philosophical Papers and Reviews

Review of Educational Research

Social and Organizational Informatics and Cybernetics

Statistics in Medicine

Social Indicators Research

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### **Awards**

2000 Mentorship Appreciation Award for Preparing Future Faculty Program (Graduate College, Arizona State University)

1999 The third prize of Writing Contest "Chinese Observing Chinese" (China Times Magazine)

1991 Award for Outstanding Academic-Related Activities (Human Relations, University of Oklahoma, OK)

1990 International Student Leadership and Service Award (International Student Association, Hamline University, MN)

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