# York H. Dobyns:
# Curriculum Vitae as of May 2012

## Education

Ph.D. (physics), Princeton University, 1987
M.S. (physics), Princeton University, 1985
B.S. (physics), Ohio University, 1982

## Employment History (Reverse Chronological)

*Primary/Full Time*

*[Note: The positions listed below are recorded by Princeton's Office of Human Resources as a single appointment lasting from April 1987 to February 2012; the individual entries reflect changes over time in job title, seniority, and employing department.]*

Professional Optimization Specialist, Department of Electrical Engineering, Princeton University, February 2007–February 2012

Professional Optimization Specialist, Department of Electrical Engineering and Department of Mechanical and Aerospace Engineering (separate part-time appointments), Princeton University, February 2006–February 2007

Technical Staff Member III in Electrical Engineering Department, Princeton University, November 2005–January 2006 (Overlapping part-time appointment with position listed below)

Technical Staff Member III at Princeton Engineering Anomalies Research, Princeton University, Department of Mechanical and Aerospace Engineering, July 1988–January 2006.

Technical Staff Member III in Electrical Engineering Department, Princeton University, November 2005–January 2006

Technical Staff Member III (final title) at Princeton Engineering Anomalies Research, Princeton University, Department of Mechanical and Aerospace Engineering, July 1988–January 2006.

Postdoctoral appointment at Princeton Engineering Anomalies Research,
Department of Mechanical and Aerospace Engineering,
September 1987–June 1988.

Postdoctoral appointment at Princeton University Department
of Physics, April–August 1987.

*Secondary/Part-Time*

Faculty, Cherry Hill Seminary, January 2011–present

Consultant, Bid Ocean Inc., July 2010–December 2010

Consultant, Aspen Consulting Group, April 2009–present

Consultant, California Institute for Physics and Astrophysics,
January 1999–December 2000.

*Student Employment*

Research assistantship at Princeton University Department of Physics,
academic years 1985–86, 1986–87.

NSF Graduate Study Fellowship at Princeton University Department of Physics,
academic years 1982–83, 1983–84, 1984–85.

Student assistant at University of Kentucky Department of Physics,
Nuclear Physics Laboratory, June–August 1981, June–August 1982, June–August
1983.

## Other Professional Activities

Associate Editor, Journal of Scientific Exploration, 2007

Program Chair, Annual Meeting of the Society for Scientific Exploration, 2006

Member of Council, Society for Scientific Exploration, 2010-present (current term)

<div align="center">**Skills**</div>

**Programming Skills:**
Current in C, Perl, S-Plus, Matlab.

Past experience with APL, assembly language, Fortran, Forth, Pascal, multiple versions of Basic.

Limited familiarity with C++, Python.

**Areas of Experience:**
General statistical analysis including parametric and non-parametric methods, analysis of variance, and general regression methods.

Statistical simulations and modeling (primarily maximum-likelihood and Monte Carlo techniques).

Physical simulations and modeling (primarily multiparticle dynamics simulations).

Experiment design, including human-factors considerations and database design and maintenance.

User interface design (graphical and non-graphical) for general applications.

<div align="center">**Bibliography**</div>

**Published books or chapters in books**

Dobyns, Y. H. (2011) Consciousness and Quantum Measurement: New Empirical Data. In *Consciousness and the Universe*, Sir Roger Penrose, Stuart Hameroff, Subhash Kak (eds.), Cosmology Science Publishers, Cambridge, MA, pp. 833-839.

Dobyns, Y. (2011) Retrocausation, Consistency, and the Bilking Paradox. In D. Sheehan (ed.), *Quantum Retrocausation: Theory and Experiment*, AIP Conference Proceedings Volume 1408, pp. 235-254

Comsa, C.R., Haimovich, A.M., Schwartz, S., Dobyns, Y., and Dabin, J. (2011) *Source Localization Using Time Difference of Arrival Within a Sparse Representation Framework.* 2011 IEEE International Conference On Acoustics,

Speech and Signal Processing (ICASSP), 12 July 2011, pp. 2872—2875. Digital Object Identifier 10.1109/ICASSP.2011.5947084

Comsa, C.R., Haimovich, A.M., Schwartz, S., Dobyns, Y., and Dabin, J. (2011) *Time difference of arrival based source localization within a sparse representation framework.* 2011 45th Annual Conference on Information Sciences and Systems (CISS), 12 May 2011, pp. 1—6;
Digital Object Identifier 10.1109/CISS.2011.5766147

Dobyns, Y. Physics with an open mind. In C. Roe, W. Kramer, and L. Coly (eds.) 2009, *Utrecht II: Charting the Future of Parapsychology* [Parapsychology Foundation, Inc., New York, NY; Het Johan Borgmanfonds Foundation, The Netherlands].

Dobyns, Y. Retrocausal information flow: What are the implications of knowing the future? In D. Sheehan (ed.) *Frontiers of Time: Retrocausation in Physics,* AIP Proceedings of 2006 AAAS Symposium, AIP Conference Proceedings 863, October 2006.

Nelson, R.D., and Dobyns, Y.H. (1988).Individual Operator Contributions in Large Data Base Anomalies Experiments. *Proceedings of the 31st Annual Convention of the Parapsychological Association, Montreal, Quebec, August 18-20, 1988.* Also in L.A. Henkel and R.A. Berger, eds. (1989) *Research in Parapsychology 1988* [Metuchen, NJ: The Scarecrow Press] pp. 27–32.

**Articles in Refereed Journals**

Dobyns, Y. H. (2011) Consciousness and Quantum Measurement: New Empirical Data. *Journal of Cosmology*, published online at http://journalofcosmology.com/Consciousness114.html

Jahn, R.G., and Dobyns, Y.H. (2007). Dependence of Anomalous REG Performance on Run Length. *Journal of Scientific Exploration* **21**(3), pp. 449-472.

Dobyns, Y.H., Valentino, J.C., Dunne, B.J., Jahn, R.G. (2007). The Yantra Experiment. *Journal of Scientific Exploration* **21** (2), pp. 261-279.

Dobyns, Y.H. (2007).  Statistical Consequences of Data Selection. *Journal of Scientific Exploration* **21** (2), pp. 325-352.

Radin, D., Nelson, R., Dobyns, Y., and Houtkooper, J. (2006). Reexamining psychokinesis: Commentary on the Bösch, Steinkamp, and Boller Meta-Analysis. *Psychological Bulletin* (2006), **132** (4), pp. 529–532.

Dobyns, Y.H., and Atmanspacher, H.A. (2006) Information Flow Between Weakly Interacting Lattices of Coupled Maps. *Chaos, Solitons, & Fractals*, **28**(3), May 2006, pp. 755–767.

Dobyns, Y.H., and Atmanspacher, H.A. (2005). Characterizing Spontaneous Irregular Behavior in Coupled Map Lattices. *Chaos, Solitons, & Fractals* 24 (2005) pp. 313–327.

Dobyns, Y.H., Dunne, B.J., Jahn, R.G., and Nelson, R.D. (2004). The MegaREG Experiment: Replication and Interpretation. *Journal of Scientific Exploration* **18** (3), pp. 369–397.

Dobyns, Y.H. (2003). Commentary: Comments on Freedman, Jeffers, Saeger, Binns, and Black: "Effects of Frontal Lobe Lesions on Intentionality and Random Physical Phenomena." *Journal of Scientific Exploration* **17** (4), pp. 669–685.

Haisch, B., Rueda, A., and Dobyns, Y. (2001). Inertial mass and the quantum vacuum fields. *Annalen der Physik*, 10, Issue 5, pp. 393–414.

Jahn, R., Dunne, B., Bradish, G., Dobyns, Y., Lettieri, A., Nelson, R., Mischo, J., Boller, E., Bösch, H., Vaitl, D., Houtkooper, J., and Walter, B. (2000). Mind/Machine Interaction Consortium: PortREG replication experiments. *Journal of Scientific Exploration* **14** (4), pp. 499–556.

Jahn, R.G., Dunne, B.J., Dobyns, Y.H., Nelson, R.D., and Bradish, G.J. (2000). ArtREG: A random event experiment utilizing picture-preference feedback. *Journal of Scientific Exploration* **14** (3),pp. 383–409.

Jahn, R., Dunne, B., Bradish, G., Dobyns, Y., Lettieri, A., Nelson, R., Mischo, J., Boller, E., Bösch, H., Vaitl, D., Houtkooper, J., and Walter, B. (2000). *Mind/Machine Interaction Consortium: PortREG Replication Experiments*. Research Report No. 1, Institut für Grenzgebiete der Psychologie und Psychohygiene, April 2000.

Dobyns, Y.H. (2000). Overview of several theoretical models on PEAR data. *Journal of Scientific Exploration* **14** (2), pp. 163–194.

Dobyns, Y., Rueda, A., and Haisch, B. (2000). The case for inertia as a vacuum effect: A reply to Woodward and Mahood. *Foundations of Physics* **30** (1), pp. 59–80.

Nelson, R.D., Jahn, R.G., Dobyns, Y.H., and Dunne, B.J. (2000). Contributions to variance in REG experiments: ANOVA models and specialized subsidary analyses. *Journal of Scientific Exploration* **14** (1), pp. 73–89.

Nelson, R.D., Jahn, R.G., Dunne, B.J., Dobyns, Y.H., and Bradish, G.J. (1998). FieldREG II: Consciousness field effects: Replications and explorations. *Journal of Scientific Exploration* **12** (3), pp. 425–454.

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Dobyns, Y.H. (1996). Selection versus influence revisited: New method and conclusions. *Journal of Scientific Exploration* **10** (2), pp. 253–267.

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**Non-Refereed Publications**

V.M. Chiriac, Y.H. Dobyns, A.M. Haimovich, and S.C. Schwartz, "Optimization algorithm for coherent localization", Patent Disclosure, NJIT/Princeton,

Dobyns, Y.H., Schwartz, S.C., Haimovich, A. (2009) *Self-Calibration of Transceiver Arrays.* Technical report, Princeton University Department of Electrical Engineering.

Comsa, C., Dobyns, Y., Haimovich, A., Schwartz, S. (2007) *Signal Processing Algorithms for TDOA Geolocation in the Presence of Multipath.* Technical report, Princeton University Department of Electrical Engineering.

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