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### EDUCATION

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|------|--|----------------|
| 1974 | FUJEN CATHOLIC UNIVERSITY<br>BS in Physics.                                  | Taipei, Taiwan |
| 1976 | UNIVERSITY OF RHODE ISLAND<br>MS in Physics.                                 | Kingston, RI   |
| 1982 | MASSACHUSETTS INSTITUTE OF TECHNOLOGY<br>Ph.D. in Applied Radiation Physics. | Cambridge, MA  |

### EXPERIENCE

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|---------|---|----------------|
| 1974-   | UNIVERSITY OF RHODE ISLAND  | Kingston, RI   |
| 1976    | Teaching Assistant in physics laboratory courses.   |                |
| 1977-   | MASSACHUSETTS INSTITUTE OF TECHNOLOGY   | Cambridge, MA  |
| 1978    | Research Assistant in a medical ultrasonic project studying ultrasound hyperthermia by a phased array transducer and mechanical control lens focusing methods.  |                |
| 1980    | NATO ADVANCED STUDY INSTITUTE<br>Teaching Assistant.  | Wellesley, MA  |
| 1979-   | MASSACHUSETTS INSTITUTE OF TECHNOLOGY   | Cambridge, MA  |
| 1982    | Research Assistant in a project: Application of photon correlation spectroscopy to biological problems; mainly, investigating bacterial motility and chemotaxis. The experimental work involved laser optics settings and maintenance, computer control and programming, automatic data collection, post-signal processing, and cell culture.   |                |
| 1982-   | UNIVERSITY OF KENTUCKY  | Lexington, KY  |
| 1984    | Assistant Research Professor. Maintained and supervised the operation of the Technicare 1.5K gauss resistive whole body NMR scanner.  |                |
| 1984-   | GEORGETOWN UNIVERSITY   | Washington, DC |
| 1989    | Assistant Professor in Radiology Department. Maintained and supervised a 1.5 T Siemens whole body NMR system.   |                |
| 1989-   | HOWARD UNIVERSITY   | Washington, DC |
| 2001    | Associate Professor in Radiology Department.  |                |
| 1999-   | HOWARD UNIVERSITY   | Washington, DC |
| present | Graduate Professor in Department of Biochemistry and Molecular Biology  |                |
| 2001-   | HOWARD UNIVERSITY   | Washington, DC |
| present | Adjunct Professor in Department of Biochemistry and Molecular Biology   |                |
| 2001-   | HOWARD UNIVERSITY   | Washington, DC |
| present | Professor in Radiology Department. Director of the Biomedical NMR / Molecular Imaging Laboratory. Primary responsibilities are to coordinate NMR research projects, to provide technical support, and to supervise the operation of NMR center. Research areas include: In vitro and in vivo NMR; NMR imaging and spectroscopy studies of diseases including cancer, heart disease, and degenerative diseases using small animal models; NMR studies of multidrug interaction and body composition; molecular imaging; and NMR applications in agriculture. Since 2005, the research interests also include developing nanoparticles as drug delivery vehicles for targeted therapy and diagnostic imaging. |                |
| 2007-   | Guest Professor, National Center for Nanoscience and Technology   | Beijing, China |

### PATENT AWARD

The patent is granted by the U. S. Patent and Trade Mark Office in May, 1986 in recognition of a design for the NMR Image Test Phantom, patent No. 4,618,826.

## HONORS

2008 Howard University College of Medicine, Outstanding Faculty Researcher Award  
2010 Howard University College of Medicine 1<sup>st</sup> Annual Research Day, First Place for Senior Faculty  
2010 Howard University College of Medicine Dr. Moses Wharton Young Research Award  
2010 Fu Jen Catholic University Outstanding Alumni Award, Taipei, Taiwan

## SOCIETIES

Member of American Association of Physicists in Medicine  
Member of International Society of Magnetic Resonance in Medicine  
Member of European Society for Magnetic Resonance in Medicine and Biology  
Member of Society of Molecular Imaging  
Member of American Society for Nanomedicine

## PUBLICATIONS

1. Wang PC, and Chen SH. Quasi-Elastic Light Scattering from Migration Chemotactic Bands of Escherichia Coli II: Analysis of Anisotropic Bacterial Motion. *Biophys J* 36, 203-219, 1981. PMID: 7025930
2. Wang PC, Chen SH. Anisotropic Speed Distribution of Bacterial Motion in Migration Chemotactic Band. *Proceedings of NATO Advances Study Institute*. Chen SH, Chu B, and Nossal R., eds. Plenum Press, NY, 1981.
3. Chen SH and Wang PC. Light Scattering Measurement of the Two-State Motional Parameters of Escherichia Coli in Chemotactic Bands. *Biomedical Application of Laser Light Scattering*. Sattelle D, Ware B, and Lee W, eds. North Holland, NY 1981.
4. Wang PC and Chen SH. Chemotactic and Band Formation of Escherichia Coli Studies by Light Scattering, The Application of Laser Light to the Study of Biological Motion. Earnshaw JC, Steer MWM Chu B, and Degiorgio V. eds. Plenum Press, NY, 1982.
5. Wang PC, Stelling CB, Mattingly SS, and Powell DE. In vivo Breast Magnetic Resonance Imaging Using a Prototype Breast Coil. *Technology of Nuclear Magnetic Resonance*. Johnston RE and Sorenson JA, eds. The Society of Nuclear Medicine, New York, NY, 1984
6. Maruyama Y, Chin HW, Young AB, Wang PC, Tibbs P, Beach JL, and Goldstein S. CT and MR Imaging to Guide Brain Tumor Implants and Judge Response. *Radiology*,152:(1)177-181, 1984. PMID: 6729108
7. Stelling CB, Wang PC, Lieber A, Mattingly SS, Griffen WO, and Powell DE. Magnetic Resonance Imaging of Female Breast Using a Prototype Breast Coil. *Radiology* 154:457-462. 1985. PMID: 3966132
8. Richardson JD, Cigtay OS, Grant EG, and Wang PC. Imaging of the Breast. *Medical Clinics of North America*. September 1984. W.B. Saunders Co., Philadelphia, PA. PMID: 6392774
9. Coffey CW, Hines HC, Wang PC, and Smith SL. The Early Applications and Potential Usefulness of NMR in Radiation Therapy Treatment Planning. *J Am Assoc Med Dosimetrists* (4)29-35, 1985.
10. Choyke PL, Mun SK, Benson H, Wang PC, Fahey F, and Hartel F. Reliability Issues in Digital Image Archiving. *Application of Optical Instrumentation in Medicine XIII; Medical Image Production, Processing, Display, and Archiving*. Schneider, R and Dwyer, JS, III., eds. SPIE, vol. 536. 1985.
11. Mun SK, Choyke PL, Duerinckx A, Wang PC, Fahey F, and Benson H. Development of PACS at Georgetown University Radiology Department. *Application of Optical Instrumentation in Medicine XIII; Medical Image Production, Processing, Display, and Archiving*. Schneider, R and Dwyer, JS, III., eds. SPIE, Vol 536. 1985.
12. Benson HR, Mun SK, Choyke PL, Wang PC, Elliott LP. Integration of Report Generating System into PACS. *Application of Optical Instrumentation in Medicine XIII; Medical Image Production, Processing, Display, and Archiving*. Schneider R, and Dwyer JS, eds. SPIE, Vol. 536, 1985.
13. Mun SK, Benson HR, Choyke PL, Fahey FH, Wang PC, Zeman RK, Elliott LP. Design and Implementation of PACS at Georgetown University Hospital. *Medical Imaging and Instrumentation 1985 Practical Applications of Conventional and New Imaging Technologies*. SPIE, Vol. 555, 1985.
14. The DIN Report: Functional Requirements for a Hospital Based Digital Imaging Network and Picture Archiving and Communication Prototype System. Brahman and Gitlin, editors. Center for Devices and Radiological Health, FDA, Rockville, Maryland. April, 1985. CDRH, FDA.
15. Fahey FH, Wang PC, Mun SK, Choyke PL, Benson HR, Duerinckx A, Elliott LP. Design Criteria for a Data Base Management System for a PACS at Georgetown University, *Proceedings of 9th Information Processing in Medical Imaging Conference*. Bacharach S, ed. Martinus-Nijhoff Publisher, Boston, MA; pp. 537-543, 1986.

16. Wang PC and Chang SJ. A Study of the Wood Log Structure by an NMR Imaging Technique. *Wood and Fiber Science*, 18(2), 308-314, 1986.
17. Wang PC and Chen SH. Quasi-Elastic Light Scattering from Migrating Chemotactic Bands of *Escherichia Coli* III. Studies of Band Formation Propagation and Motility in Oxygen and Serine Substrates. *Biophys J* 49:1205-1214, 1986. PMID: 3087435
18. Mun SK, Stauffer D, Zeman R, Benson H, Wang PC, Fahey F, and Allman R. Comprehensive Digital Imaging Network Project at Georgetown University Hospital. SPIE, 1987.
19. Chang SJ, Wang PC, and Olson JR. Nuclear Magnetic Resonance Imaging of Hardwood Logs. 2nd International Conference on Scanning Technology in Sawmilling. Forest Industries / World Wood, San Francisco, CA. 1987.
20. Wang SP, Wang PC, and Faust M. NMR Imaging of Watercored Apple. *Scientia Horticulturae*, 35, 227-234, 1988.
21. Wang CI and Wang PC. Imaging of "Bartlett" pear stored in air low oxygen atmosphere. *HortScience* 24(1):106-109, 1989.
22. Wang PC, Chang SJ, Olson JR and Mun SK. Technology of NMR Imaging in Wood. *Cellulose in Wood: Chemistry and Technology*. Conrad Schuerch Ed. John Wiley and Sons Publisher:221-233, 1989.
23. Chang SJ, Olson JR, and Wang PC. NMR Imaging of Eastern Hardwoods. *Cellulose in Wood: Chemistry and Technology*. Conrad Schuerch Ed. John Wiley and Sons Pub. pp:235-247, 1989.
24. Chang SJ, Olson JR and Wang PC. NMR Imaging of Internal Features in Wood. *Forest Prod. J.* 39(6):43-49. 1989.
25. Barth KH, Kreurers PW, Lindish D, Wang PC, Mertens MA. Quantitative Digital Subtraction Arteriography With a Calibration Catheter. *CardioVasc. Intervent. Radiol.*12(5): 281-285, 1989.
26. Olson JR, Chang SJ, Wang PC. "NMR Imaging - A Non-invasive Analysis of Moisture Distributions in White Oak Lumber." *Canadian J. of Forest Res* 20(5):586-591, 1990.
27. Olson JR, Chang SJ, Wang PC. NMR Imaging of Moisture Flow in White Oak Rays. *Int. Symp. on Wood Drying - Upgrading Wood Quality Through Drying Technology*, Seattle, Washington 1989.
28. Chang SJ, Wang PC. Scanning Logs With an NMR Scanner. 7th International conference on Non-destructive Testing of Wood. Madison, Wisconsin, Sept 27-29, 1989. Proceedings of the Conference, Washington State University Press Published.
29. Mitchell AD, Wang PC and Elsasser TH. Determination of fat and water content in vitro in pork and in vivo in mice by proton magnetic resonance. *J. Sci.Food Agric.* 56, 265-276, 1991.
30. Chang SJ, Cohen M, Wang PC. Ultra-fast Scanning Hardwood Logs with an NMR Scanner. 4th International Conference on Scanning Technology in Wood Industry. 1991.
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34. Wang, CY and Wang, PC. Differences in nuclear magnetic resonance images between chilled and nonchilled zucchini squash. *Envir. Expt. Bot.* 32:213-219, 1992.
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- DR. Lower Leg Isokinetic Training and Peripheral Hemodynamic Adaptations. *Can J Appl Physiol.* 21(3):208-216, 1996. PMID: 87920251.
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  61. Shan L, Hao YB, Wang SP, Korotcov A, Zhang RS, Wang TX, Califano J, Gu XB, Sridhar R, Bhujwalla ZM, Wang PC. Visualizing Head and Neck Tumors In Vivo Using Near-infrared Fluorescent Transferrin Conjugate.

- Molecular Imaging 7(1):42-49, 2008. PMID: 18384723
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  65. Wang PC, Shan L, Wang SP, Korotcov A, Liang XJ. Transferrin Liposome Nanoparticle (Tf<sup>NIR</sup>-Lip<sup>NBD</sup>-Magnevist) – A Tumor Targeting MRI Contrast Agent. *Acta Biophysica Sinica* 24(4):315-322, 2008
  66. Liang XJ, Chen CY, Zhao YL, Jia L, Wang PC. Biopharmaceutics and Therapeutic Potential of Engineered Nanoparticles. *Curr Drug Metab* vol 9(8):697-709, 2008. PMID18855608, PMC2715162
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