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## Prof. Dr. Fred Y. Ye (Ying Ye)



Prof. Dr. Ye's research interest focuses on the scientific metrics and spirit philosophy. His publications include more than 100 articles and 3 monographs, as well as 3 textbooks. His main academic contributions include (1) scientific metrics with interdisciplinary applications and h-type metrics for network analysis; (2) triad philosophy for merging eastern and western thoughts in contemporary society; (3) vortex field theory and wealth expansion theory. His research also extends to religion philosophy.

Prof. Dr. Ye is now a Fellow of European Academy of Sciences and Arts. During Sept. 2000 to Sept. 2001, Dr. Ye was a Fulbright research scholar in USA. Since 2010, Ye was visiting professor in American, European and Australian universities, including UIUC and BU in USA, Humboldt University in Germany, K.U. Leuven in Belgium, University of Sheffield in UK, University of Cambridge in UK, etc.

### EDUCATION

Ph.D.,	Chinese Philosophy, Sun Yat-sen University	Dec.1995
M.A.,	Library & Information Science, East China Normal University	Sept.1988
B.S. ,	Chemical Sciences, Nanjing University	July 1982

### HONOURS

Fellow, European Academy of Sciences and Arts, Code 2399  
Fulbrighter (Fulbright research scholar), USA, 2000-2001

### JOB OBJECTS

Research Professor / Academic Editor

### PROFESSIONAL EXPERIENCE

July 2012 to Apr. 2022 Full Professor, Nanjing University, Nanjing, CHINA  
May 2002 to Dec. 2012 Full Professor, Zhejiang University, Hangzhou, CHINA  
Sept.2000 to Sept. 2001 Fulbright Research Scholar, University of Michigan, USA  
Apr. 1996 to Sept. 2000 Senior Research Librarian in Zhejiang University, Hangzhou, CHINA  
July 1987 to Sept.1993 Lecturer and Reference Librarian, Zhejiang University, CHINA  
Aug. 1982 to Aug. 1985 Assistant Professor in Southwest Forestry College, Kunming, CHINA

### **VISITING EXPERIENCE**

July 2019 to Aug.2019 Visiting professor at Boston University, USA  
July 2018 to Aug.2018 Visiting professor at University of Cambridge, UK & University of Copenhagen, Denmark  
July 2017 to Aug.2017 Visiting professor at University of Queensland, Australia  
July 2015 to Aug.2015 Visiting professor at Drexel University and UIUC, USA  
July 2014 to Aug.2014 Visiting professor at K. U. Leuven, Belgium  
July 2013 to Aug.2013 Visiting professor at Indiana University, USA  
July 2012 to Aug.2012 Visiting professor at University of Sheffield, UK  
July 2010 to Sept.2010 Visiting professor in iFQ associated to Humboldt University, Germany  
Sept.2000 to Sept. 2001 Fulbright Visiting Research Scholar, in the University of Arizona and the University of Michigan, USA  
Oct.1992 to Nov.1992 Visiting scholar in German Patent Office, Germany

### **RESEARCH INTERESTS**

Scientific metrics; Spirit philosophy

### **MAIN PUBLICATIONS**

#### Main Academic Books

Ye, F. Y. (2022). Vortex-Field Theory. IGI Global (in press)  
Ye, F.Y. (2022). Wealth Expansion Theory. IGI Global (in press)  
Ye, F. Y. (2017). Scientific Metrics: towards analytical and quantitative sciences. Springer & Science Press (in English)  
Ye, Ying (2009). A Guide to Chinese and Western Classics. Hangzhou, Zhejiang University Press (in Chinese)  
Fred Y. Ye (2005). A Study on the Classic of Changes, Classic of Mysteries and Classic of Hidden Emptiness. Shanghai, Shanghai Ancient Book Press (in Chinese)

#### Main Peer-reviewed English Articles

Ye, F. Y. (2021). A design philosophy from the view of creation: design vs. research. *Philosophy Study*, 11(12), 942-948. DOI: 10.17265/2159-5313/2021.12.006  
Wang, J.J., Shao, S.X. & Ye, F. Y.\* (2021). Identifying 'seed' papers in sciences. *Scientometrics*, 126(7), 6001-6011. DOI: 10.1007/s11192-021-03980-5  
Wei, S. X., Wang, H. Y., Cao, C.\* & Ye, F. Y.\* (2021). One big science project or 1000 smaller ones? *Current Science*, 121(4), 479-484. DOI: 10.18520/cs/v121/i4/479-484  
Ye, F. Y. (2020). A quantum scalar-vector-spinor model as vortex-field theory for

- approaching physical unification without dark sectors. *International Journal of Physics*, 8(2): 48-63. DOI: 10.12691/ijp-8-2-3
- Ye, F. Y. (2020). A mathematical principle of quantum mechanism. *Journal of Physical Mathematics*, 11(2): 1-5. DOI: 10.37421/jpm.2020.11.317
- Ye, F.Y. (2020). An economic analysis of efficiency and equity combining epistemological true with axiological good through microeconomics to macroeconomics. *International Journal of Economics and Financial Research*, 6(7): 159-169. DOI: 10.32861/ijeifr.67.159.169
- Zhang, H. H. & Ye, F. Y.\* (2020). Identifying ‘Associated-Sleeping-Beauties’ in ‘Swan groups’ based on small qualified datasets of physics and economics. *Scientometrics*, 122(3): 1525-1537. DOI 10.1007/s11192-020-03359-y
- Ye, F. Y. (2019). A physical philosophy for approaching the true and then the beautiful: principled review on the progress of contemporary physics. *Scientific Review*, 5(9): 163-172. DOI: 10.32861/sr.59.163.172
- Ye, F. Y. (2019). Triad philosophy: an initiative idea for merging Western and Eastern thoughts. *Philosophy Study*, 9(8): 445-451. DOI:10.17265/2159-5313/2019.08.002
- Wang, R. W. & Ye, F. Y.\* (2019). Simplifying heterogeneous weighted network with extracting its h-structure via s-degree. *Scientific Reports*, 2019, 9: 18819. DOI: 10.1038/s41598-019-55399-x
- Zhang, H. H.; Zuccala, A. A. & Ye, F. Y.\* (2019). Tracing the ‘Swan-groups’ of physics and economics in the key publications of Nobel laureates, *Scientometrics*, 119: 425-436. DOI: 10.1007/s11192-019-03036-9
- Zhang, R. J.; Stanley, H.E.\* & Ye, F. Y.\* (2018). Extracting h-Backbone as a core structure in weighted network. *Scientific Reports*, 8: 14356. DOI: 10.1038/s41598-018-32430-1
- Ye, F. Y\* & Bornmann, L. (2018). “Smart girls” versus “Sleeping beauties” in the sciences: The identification of instant and delayed recognition by using the citation angle. *Journal of the Association for Information Science and Technology*, 69(3): 359-367. DOI: 10.1002/asi.23846
- Li, S.S., Ye, A. Y., Qi, E. P, Stanley, H.E.\* & Ye, F. Y. \*(2018). Characterizing core-periphery structure of complex network by h-core and fingerprint curve. *Physica A*, 492: 1206-1215. DOI: 10.1016/j.physa.2017.11.048
- Ye, F.Y. (2017). A vortex formulation of quantum physics setting discrete quantum states into continuous space-time. *International Journal of Natural Science and Reviews*, 1, 4: 0001-0013
- Ye, F.Y. (2017). A cubic integrated economic model for macroeconomic analysis. *Euro-Asian Journal of Economics and Finance*, 5(1): 1-10
- Zeng, C.J., Qi, E. P, Li, S.S. Stanley, H.E.\* & Ye, F. Y.\* (2017). Statistical characteristics of breakthrough discoveries in science using the metaphor of Black and White Swans. *Physica A*, 487: 40-46. DOI: 10.1016/j.physa.2017.05.041
- Ye, F. Y\*, Bornmann, L. & Leydesdorff, L. (2017). h-based I3-type multivariate vectors: multidimensional indicators of publication and citation scores. *COLLNET Journal of Scientometrics and Information Management*, 11(1): 153-171. DOI: 10.1080/09737766.2017.1284954

- Bornmann, L\*, Ye, A.Y. & Ye, F.Y. (2017). Sequence analysis of annually normalized citation counts: an empirical analysis based on the characteristic scores and scales (CSS) method. *Scientometrics*, 113(3): 1665–1680. DOI: 10.1007/s11192-017-2521-9
- Ye, F. Y. (2016). Measuring Knowledge: A quantitative approach to knowledge theory. *International Journal of Data Science and Analysis*, 2(2): 32-35. DOI: 10.11648/j.ijdsa.20160202.13
- Li, S.S., Lin, X. Liu, X. & Ye, F. Y.\* (2016). H-crystal as a core structure in multilayer weighted networks. *American Journal of Information Science and Computing Engineering*, 2(4): 29-44.
- Zhang, L.\*, Glänzel, W. & Ye, F. Y\*. (2016).The Dynamic evolution of core documents, an experimental study based on h-related literature (2005 – 2013). *Scientometrics*, 106(1): 369-381. DOI: 10.1007/s11192-015-1705-4
- Li, J.\* & Ye, F. Y.\* (2016). Distinguishing sleeping beauties in science. *Scientometrics*, 108: 821-828. DOI: 10.1007/s11192-016-1977-3
- Ye, F.Y. (2015). A synthetic macro-economic model integrating interest, exchange and tax rates. *Euro-Asian Journal of Economics and Finance*, 3(4): 217-226
- Ye, F.Y. (2015). Economic complex analysis for approaching economic equilibrium and economic stability. *Euro-Asian Journal of Economics and Finance*, 3(3): 133-138
- Ye, F.Y. (2015). A probe into the unification of micro-macro-economics: Arrow-Debreu-Mundell-Fleming model as a standard model. *Euro-Asian Journal of Economics and Finance*, 3(1): 1-8
- Ye, F. Y. & Leydesdorff, L. (2014). The “Academic Trace” of the Performance Matrix, A Mathematical Synthesis of the h-Index and the Integrated Impact Indicator (I3). *Journal of the Association for Information Science and Technology*, 65(4): 742-750. DOI: 10.1002/asi.23075
- Li, J.; Shi, D.B.; Zhao, S.X. & Ye, F.Y.\* (2014). A study of the “heartbeat spectra” for “sleeping beauties”. *Journal of Informetrics*, 8(3): 493-502. DOI: 10.1016/j.joi.2014.04.002
- Ye, F. Y. (2014). A Progress on the Shifted Power Function for Modeling Informetric Laws. *Malaysian Journal of Library and Information Science*, 19(1): 1-15
- Ye, F. Y. (2013). Branching dynamics: A Theoretical Interpretation of Natural Phenomena. *International Journal of Modern Nonlinear Theory and Application*, 2: 74-77
- Ye, F.Y. & Rousseau, R. (2013). Modelling continuous percentile rank scores and integrated impact indicators (I3). *Canadian Journal of Information and Library Science*, 37(3): 201-206. DOI: 10.1353/ils.2013.0016
- Ye, F. Y, Yu, S.S. & Leydesdorff, L. (2013). The triple helix of university-industry-government relations at the country level and its dynamic evolution under the pressures of globalization. *Journal of the American Society for Information Science and Technology*, 64(11): 2317-2325. DOI: 10.1002/asi.22931
- Zhao, S.X. & Ye, F.Y.\* (2013). Power-law link strength distribution in paper co-citation networks. *Journal of the American Society for Information Science and*

- Technology*, 64(7): 1480–1489. DOI: 10.1002/asi.22846
- Chen, D-Z; Huang, M-H & Ye, F.Y.\*. (2013). A probe into dynamic measures for h-core and h-tail. *Journal of Informetrics*, 7(1): 129-137. DOI: 10.1016/j.joi.2012.10.002
- Zhao, S.X.; Tan, A.M & Ye, F.Y.\*. (2012). Distributive h-indices for measuring multi-level impact. *Journal of the American Society for Information Science and Technology*, 63(10): 2074–2086. DOI: 10.1002/asi.22682
- Li, J. & Ye, F.Y.\* (2012). The phenomenon of all-elements-sleeping-beauties in scientific literature. *Scientometrics*, 92(3): 795–799. DOI: 10.1007/s11192-012-0643-7
- Tan, A.M; Zhao, S.X. & Ye, F.Y.\*. (2012). Funds promote scientific output. *Current Science*, 102 (4): 542-543
- Zhao, S. X.; Rousseau, R. & Ye, F.Y.\* (2011). h-Degree as a basic measure in weighted networks. *Journal of Informetrics*, 5(4): 668-677. DOI: 10.1016/j.joi.2011.06.005
- Ye, F. Y. (2011). A theoretical approach to the unification of informetric models by wave-heat equations. *Journal of the American Society for Information Science and Technology*, 62(6): 1208-1211. DOI: 10.1002/asi.21498
- Ye, F.Y. (2011). A unification of three models for the h-index. *Journal of the American Society for Information Science and Technology*, 62(1): 205–207. DOI: 10.1002/asi.21456
- Zhao, S. X. & Ye, F.Y.\* (2011). h-Efficiency, measuring input-output performance of research funds. *Current Science*, 101: 21-22
- Ye, F. Y. (2010). National scientific fingerprint. *Current Science*, 99(12): 1641-1642
- Ye, F. Y. & Rousseau, R. (2010). Probing the h-core, an investigation of the tail-core ratio for rank distributions. *Scientometrics*, 84(2): 431-439. DOI: 10.1007/s11192-009-0099-6
- Ye, F. Y. (2009). A Clifford-Finslerian physical unification and fractal dynamics. *Chaos, Solitons and Fractals*, 2009, 41(5): 2301-2305
- Ye, F. Y. (2009). From chaos to unification: U theory vs. M theory. *Chaos, Solitons and Fractals*, 2009, 42(1): 89-93
- Ye, F. Y. (2009). An investigation on mathematical models of the h-index. *Scientometrics*, 2009, 81(2): 493-498. DOI: 10.1007/s11192-008-2169-6
- Ye, F. Y. & Rousseau, R. (2008). The power law model and total career h-index sequences. *Journal of Informetrics*, 2(4): 288-297. DOI: 10.1016/j.joi.2008.09.002
- Ye, F. Y. (2007). A Quantitative Relationship between Per Capita GDP and Scientometric Criteria. *Scientometrics*, 71(3): 407-413. DOI: 10.1007/s11192-007-1678-z

## **LANGUAGES**

Chinese: Native mandarin

English: Professional application

Esperanto, French, German, Japanese, Russian, Spanish: A little

## **External links**

Wiki: [https://en.everybodywiki.com/Fred\\_Y.\\_Ye](https://en.everybodywiki.com/Fred_Y._Ye)

ResearchGate: <https://www.researchgate.net/profile/Fred-Ye>

Academia: <https://independent.academia.edu/FredYYe>