Name	Yu, Su-Peng		Na	tionality	у Та	Taiwan, ROC			
Phone Number	886-2-23222701		F	E-Mail		Yuadam.prime @gmail.com			(66)
Date of Birth	01/31/1988			Ailitary bligation		Being preformed 08/2010 to 07/2011			
Contact Address	9F-1, No.49, Sec. 1, Nano Taipei, Taiwan (R.O.C.				Marital Status		Single		
Educational S t a t u s	Institution								Duration
	Taipei Municipal Hong-Dao Junior High School							09/00~06/03	
	Taipei Municipal Jian-Guo High School – Class for the Science Gifted							09/03~06/06	
	National Taiwan University – Bachelor - Major in physics								09/06~06/10
Language Proficiency	Chinese (Mandarin)	Fluent	E		Name Date			Score	
			kami	G	RE General 10/24/09			610/800/4.5	
	English	Fluent	Examinations	GRE S	GRE Subject - Physics 11/07/09				990
g e 1 c y	German	Basic	ons	Т	TOEFLIBT 05		05/22/10	114	
Awards and Honors	Awarded the International Fulbright Science and Technology Award for 2011 Awarded Dean's Award of Academic Excellence on graduation from NTU Five times awarded for Academic Excellence from NTU (Award given to the top 5% of each class) Participated in 37 <sup>th</sup> International Physics Olympiad, Singapore, Silver Medal awarded. Participated in 7 <sup>th</sup> Asian Physics Olympiad, Kazakhstan, Gold Medal awarded.								
<u> </u>	Determining the size distribution of magnetic nanoparticles based on analysis of magnetization curve, Journal of Applied Physics. <b>106</b> , 103905 (2009)								
	- Determining the size distribution of magnetic nanoparticles – Experimental Topical Research								
-	- Quantum open systems and MRFM single-spin measurement – Theoretical Topical								
	Research - Direct simulation of Maxwell distribution in ideal gas via collisions — Term project of								
Projects	Computer Programming course								

- Second law of thermodynamics in classical open systems – Term project of Statistical Physics (II) course - Applications of semiclassical models with wave-packet picture – Term project of Theory of Solid (I) course Properties and Applications of Coherent State - Term project of Mathematical **Experiences** Structure of Quantum Mechanics course with Principle and applications of spintronics – Term project of Introduction to **Projects** Nano-electronics course (Continued) Analytical Skills: Quantum physics with both Schrödinger and Heisenberg formalism. Proficiency with density matrix quantum statistics formalism, Heisenberg equation with coupled environment and feedback, and quantum trajectory formalism. Familiarity with thermodynamic ensembles, Fermi-Dirac and Bose-Einstein statistics. Familiarity with complex analysis, probability and statistics, ODE/PDE solving, Fourier/Laplace transforms, and perturbation approximation methods. Capability of rigorous theorem proving Experimental Skills: Vacuum chamber operation, substrate preparation, deposition, annealing. Research Nanoparticle handling, polymer matrix synthesis **Skills** Experience with atomic force microscopy and vibration sample magnetometer Basic electronics, filter/amplifier/logic circuit building Computational Skills: Proficiency with C++, Matlab, and Mathematica Numerical DE solving, simulation and data analysis Visualization, parallel usage and mutual-aiding between derivation and computation

	Quantum Physics, Quantum Open System, and Measurements:								
	- Decoherence-free subspaces								
	- Rapid and continuous measurements								
Research Interests	- QND measurements								
	- Collapse-less picture of measurements								
	- Feedback protection of non-classical states								
	- Measurement noise cancelation								
	- Feedback-amplification of small signals								
	- Systems with non-classical steady states								
	Quantum Phenomena in Nano-Technology:								
	- Novel properties of nano-structures								
	- Nano-electronics								
	- Quantum transistors								
	- SQUID and cQED devices								
	- MEMS/NEMS								
	Δ Δ								
	Learned German at Deutsches Kulturzentrum Taipei for one year								
	Participated in 1 <sup>st</sup> APEC Youth Leadership Camp For the Science Gifted								
	Traveled countries:								
<b>X</b>	Canada, China, India, Japan, Kazakhstan, Singapore ,South Korea, USA, UK								
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ellan									
Miscellaneous									
<b>S</b>									