

Curriculum Vitae

Chung-Wen Kao

Physics Department

Chung-Yuan Christian University, Taiwan

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Educations:

◆ *Ph.D.* January 2000

University of Maryland, College Park, Maryland, USA.

Dissertation: Theoretical study of Delta(1232) Resonance in Heavy Baryon Chiral
Perturbation Theory.

Advisor: Prof. Thomas D. Cohen

◆ *B.Sc. in Physics* June 1991

National Taiwan University, Taipei, Taiwan.

Professional experiences:

◆ *Professor*

August 2010—Present

Department of Physics,
Chung-Yuan Christian University,
Chungli, Taiwan

◆ *Director*

February 2014—Present

CYCU Centre for High Energy Physics,
Chung-Yuan Christian University,
Chungli, Taiwan

◆ *Adjunct Professor*

August 2022—present

Institute of Physics,
National Yang Ming Chiao Tung University,
Hsin-Chu, Taiwan

- ◆ *Adjunct Professor* February 2023–July 2023

Department of Physics,
TamKang University,
Tam-Sui, Taiwan
- ◆ *Adjunct Professor* August 2016—January 2022

Department of Physics,
National Central University,
Chung-Li, Taiwan
- ◆ *Adjunct Professor* August 2014—August 2020

Institute of Physics,
National Chiao-Tung University,
Hsinchu, Taiwan
- ◆ *Visiting Professor* March 2015—June 2015

Institut für Kernphysik
Johannes Gutenberg Universität
Mainz, Germany
- ◆ *Associate Professor* August 2006—July 2010

Department of Physics,
Chung-Yuan Christian University, Chungli, Taiwan
- ◆ *Staff Scientist* May 2005—July 2006

Division of Physics,
National Center for Theoretical Sciences,
Hsinchu, Taiwan.
- ◆ *Visiting Assistant Professor* May 2005—July 2006

Department of Physics,
National Tsing-Hua University,
Hsinchu, Taiwan.
- ◆ *Research Associate* November 2003 – April 2005

Theoretical Nuclear and Particle Physics Group,
Department of Physics,
North Carolina State University,
Raleigh, North Carolina, USA.
- ◆ *Research Associate* October 2001 – September 2003

Theoretical Physics Group,
Department of Physics and Astronomy,
University of Manchester,
Manchester, United Kingdom.
- ◆ *Research Associate* April 2001 – September 2001

Department of Physics,
National Taiwan University,
Taipei, Taiwan.

◆ *Alexander von Humboldt Research Fellow*

April 2000—March 2001

Institut für Theoretische Physik,
J. W. Göthe Universität,
Frankfurt am Main, Germany.

◆ *Graduate Research Assistant*

June 1996—February 2000

TQHN Group,
Department of Physics,
University of Maryland,
College Park, Maryland, USA.

◆ *Graduate Teaching Assistant*

August 1994—June 1996

Department of Physics,
University of Maryland,
College Park, Maryland, USA.

◆ *Full-time Teaching Assistant*

July 1993—June 1994

Department of Physics,
National Taiwan University,
Taipei, Taiwan.

Academic activities:

Chair , Executive Committee

Particle and field division, Taiwan Physics Society

September 2020-2021

Deputy editor-in-chief

January 2020-present

“Physics” bimonthly magazine
Taiwan

Advisory Committee member

January 2015-December 2017

Physics Research Promotion Center,
Ministry of Science and Technology, Taiwan

Coordinator

2011-2012

NCTS Focus group “Hadronic Physics and Lattice QCD”

Executive Committee member

NCTS Focus group “Collider, Astroparticle and BSM”

2006-2008

NCTS Focus group “Hadronic Physics and Lattice QCD”

2009-2014

Local organizing committee

The 10th Circum-Pan-Pacific Symposium on High Energy Spin Physics, Academia Sinica,

Taipei, October 5-8, 2015.

Co-organizer

Workshop on hadronic physics and QCD, Taipei, Taiwan, July 17th-18th, 2017.

Co-organizer

The 17th Taiwan Nuclear Physics Summer School, Taipei, Taiwan, August 25th-28th, 2014.

Co-organizer

The program of “Phase structure of Gauge Field Theories”. Taipei, September 3- 6, Hsinchu, September 9-11, 2013.

Co-organizer

The 1st Winter School of “Nonperturbative Aspect of Gauge Field Theories”. Taipei, Jan 15-Jan 18, 2013.

Co-organizer

The 16th Taiwan Nuclear Physics Summer School, Taipei, Taiwan, July 2nd-July 5th, 2012.

Co-organizer

The 15th Taiwan Nuclear Physics Summer School, Taipei, Taiwan, June 27th-June 30th, 2011.

Co-organizer

The 14th Taiwan Nuclear Physics Winter School, Hualien, Taiwan, Jan 17th-Jan 22th, 2011.

Co-organizer

The 13th Taiwan Nuclear Physics Summer School, Hsinchu, Taiwan, June 29th-July 4th, 2009.

Organizer and Host

The 12th Taiwan Nuclear Physics Summer School, Chungli, Taiwan, June 20th- 23rd, 2008.

Co-organizer

The 11th Taiwan Nuclear Physics Summer School, Taipei, Taiwan, June 1st-10th, 2006.

Organizer

Biweekly regular HEP seminar,

Chung-Yuan Christian University, Chungli, Taiwan

September 2006-January 2008

September 2008-January 2009

September 2011-December 2014

September 2015-Present

Organizer

Weekly Particle Physics and

Quantum Information joint seminar,

Chung-Yuan Christian University, Chungli, Taiwan

February 2009-June 2011

Other experiences:

◆ **Second Lieutenant**

Mandatory Military Service in the Army of Taiwan.

July 1991 – May 1993

Taiwan NSC -MOST- NSTC Grants:

- ◆ *Application of effective field theory to the hadronic structure*
PI, From October 2006—July 2007
- ◆ *Application of effective theory (2): hadronic structure and many-fermion system*
PI, from August 2007—July 2010
- ◆ *Theoretical study of Nucleon Structure*
PI, from August 2010—July 2013
- ◆ *Study on the structure of nucleon and phase transition of QCD*
PI, from August 2013—July 2016 (extended to July 2017)
- ◆ *Study on the lepton-proton scatterings*
PI, from August 2016—July 2017(extended to July 2018)
- ◆ *Study on the partonic structure of hadrons*
PI, from August 2017—July 2018(extended to July 2019)
- ◆ *Studies on the three-dimensional structure of hadrons*
PI, from August 2018—July 2019
- ◆ *Study on the tomography of hadrons*
PI, from August 2019—July 2023
- ◆ *QuBear microlearning platform*
Co-PI , from August 2022—July 2027

Research Interests:

- Effective Field Theories
- Spin and Flavour Structure of Nucleon
- Hadronic structures and interactions
- Non-equilibrium field theory
- Phase structure of gauge theories
- Nonperturbative methods of Field theories

Courses Taught:

- ◆ General Physics (I) (Fall 2006, 2007)
- ◆ Quantum Mechanics (I)(Fall 2006, 2007)
- ◆ General Physics (II)(Spring 2007, 2008)
- ◆ Quantum Mechanics (II)(Spring 2007, 2008)
- ◆ Advanced Quantum Mechanics (Fall 2007)
- ◆ Quantum Physics (I) (Fall 2024)
- ◆ Quantum Physics (II) (Spring 2025)
- ◆ Classical dynamics (I) (Fall 2008,2009,2010)

- ◆ Classical dynamics (II) (Spring 2009,2010,2011)
- ◆ Basic Mechanics (Fall 2008,2009,2012)
- ◆ General Physics Lab (I) (Fall 2011-2018)
- ◆ General Physics Lab (II)(Spring 2012-2014,2016-2019)
- ◆ History of Modern Physics (Fall 2010, 2011, 2014, 2015, Spring 2010,2014)
- ◆ Survey of Contemporary Physics (Spring 2011,2012)
- ◆ Advanced Mathematical Physics (I) (Fall 2010-2022)
- ◆ Advanced Mathematical Physics (II) (Spring 2011,2021-2023)
- ◆ Introduction to Quantum Field Theory (Fall 2011,2023)
- ◆ Introduction to particle physics (Spring 2012,2016,2024)
- ◆ Classical Mechanics (Spring 2009,2012)
- ◆ Quantum Field Theory I (Fall 2011)
- ◆ Quantum Field Theory II(Spring 2012)
- ◆ Stellar Evolution (Spring 2013, Spring 2014)
- ◆ Basic Applied Mathematics (Spring 2013, Fall 2016)
- ◆ Brief history of Space-Time (Fall 2013-2018, 2020-2024 Spring 2014,2016-2025)
- ◆ Basic Nuclear Physics (Fall 2014, 2020, 2022, Spring 2017)
- ◆ Introduction to Astronomy (Fall 2016,2024 Spring 2018-2020, Spring 2022)
- ◆ Theoretical Physics (Summary course) (II) (Fall 2017-2018,2020-2023)
- ◆ Theoretical Physics (Summary course) (I) (Spring 2018-2024)
- ◆ High Energy Seminar (Fall 2017, 2018, Spring 2018,2019)
- ◆ Seminar of HEP and QI (Spring 2009,Fall 2009)
- ◆ Exploring Black Holes (Fall 2021, Spring 2023)
- ◆ Colloquium (Spring 2009, Fall 2021)
- ◆ Relativity (Fall 2023)
- ◆ General Relativity (Spring 2024)
- ◆ **Introduction to high energy physics (Fall 2016 at NCU)**
- ◆ **Quantum Field Theory (III) (Fall 2014, 2016,2017, Spring 2019 at NCTU)**
- ◆ **Quantum Field Theory (III) (Fall 2022 , Spring 2025 at NYCU)**
- ◆ **Quantum Field Theory (II) (Fall 2023,2024 at NYCU)**
- ◆ **Quantum Field Theory (I) (Spring 2024 at NYCU)**
- ◆ **Quantum Field Theory (IV) (Fall 2015, Spring 2018 at NCTU)**
- ◆ **Quantum Field Theory (II) (Spring 2016, 2020 at NCTU)**
- ◆ **Quantum Field Theory (II) (Spring 2020 at NCU)**
- ◆ **Quantum Field Theory (I) (Spring 2021 at NCU)**
- ◆ **Particle Physics (I) (Spring 2017, Fall 2019 at NCTU)**
- ◆ **Particle Physics (II) (Fall 2018 at NCTU)**
- ◆ **Special Topics on High Energy Particle Collision Experiment (Spring 2017 at NCU)**

- ◆ **High Energy Physics I (Spring 2018 , 2019 at NCU)**
- ◆ **Introduction to strong interaction (Fall 2021 at NCU)**
- ◆ **Introduction to modern physics (Spring 2023 at TKU)**
- ◆ **Brief History of Physics (Fall 2024 NCU)**

Talks at Workshops, Conferences and Schools:

- ***Exploring the strangeness in the proton at EIC***
talk at the 3rd EIC-ASIA Workshop , at National Cheng-Kung University, Tainan, Taiwan
January 29-31, 2024.
- ***Fallacies of Hope or Oracle of Delphi?***
Contributed talk at the 3rd Taiwan QCD meeting, Academia Sinica in Taipei,
Taiwan, September 16th, 2022.
- ***PDFs, TMDs and GPDs for EIC (theory)***
Invited talk at the TIDC (Taiwan Instrumentation and Detection Consortium) EIC workshop
National Cheng-Kung University, Tainan, Taiwan from August 18 to August 19, 2022.
- ***Kaon multiplicities of Semi-inclusive DIS and the Fragmentation Functions***
Contributed talk at the 8th International Conference on Quark and Nuclear Physics
, Tsukuba, Japan from November 13 to November 17, 2018.
- ***Modeling single hadron and Dihadron fragmentation functions***
Invited talk at the Taiwan-Korea joint workshop, at NCU, Chung-Li, Taiwan, from May 31 to
June 1st, 2018.
- ***Kaon multiplicities of SIDIS off the deuteron***
Contributed talk at the XXVI International Workshop on Deep Inelastic Scattering
and Related Subjects at Kobe university, Kobe, Japan from April 16 to April 20, 2018.
- ***Modeling single hadron and Dihadron fragmentation functions***
Invited talk at the "12th particle physics phenomenology (ppp12) workshop, at NCTU,
Hsin Chu, Taiwan, from May 16 to May 19, 2017.
- ***Dihadron Fragmentation functions in chiral models***
Invited talk at the " KEK theory center workshop on Hadron and Nuclear Physics in 2017, at
KEK, Tsutuba, Japan, from January 7 to January 10, 2017.
- ***Charged meson Fragmentation functions and HERMES pion and kaon multiplicity***
Contributed talk at the "The 14th International Conference on Meson-Nucleon Physics and the
Structure of the Nucleon (MENU 2016), Kyoto, Japan, July 25 - 30, 2016.
- ***Charged meson Fragmentation functions and HERMES pion and kaon multiplicity***
Invited talk at the 10th Circum-Pan-Pacific Spin Symposium on High Energy Spin Physics"

that will be held at Institute of Physics, Academia Sinica in Taipei, Taiwan, on October 5-8, 2015.

■ ***Kaon Fragmentation functions and HERMES kaon multiplicity***

Contributed talk scheduled to give at the 12th International Conference on Hypernuclear and Strange Particle Physics (HYP2015) at Tohoku University in Sendai, Japan, from September 7 to September 12, 2015.

■ ***Dihadron Fragmentation functions in nonlocal chiral quark model***

Poster presented at the KEK Theory Workshop 2015 at KEK, Tsutuba, Japan, from January 28 to January 31, 2015.

■ ***News from hadronic community***

Invited talk given at the third workshop on "Trends in Theoretical Physics", NCTS, south, Tainan, Taiwan, June 20th, 2014.

■ ***Generalized Polarizabilities in ChPT***

Invited talk given at ECT* workshop: Compton scattering off Protons and Light Nuclei: pinning down the nucleon polarizabilities, ECT*, Trento, July 29-Aug 2, 2013.

■ ***Fragmentation functions in non-local chiral quark model***

Contributed talk given at international conference on the structure of Baryon, Glasgow, UK, June 24th-June 28th, 2013.

■ ***Unpolarized Dihadron Fragmentation Functions in Nonlocal Chiral Quark Model***

Poster presented at 25th International Nuclear Physics Conference (INPC 2013) June2-June 7, 2013. Florence, Italy

■ ***Fragmentation functions in non-local chiral quark model***

Invited talk given at the 10th workshop of Particle Physics Phenomenology, May 29th-June 1st, 2013.

■ ***Chiral restoration under strong magnetic field: Controversy and Puzzle***

Invited talk given in the ANPhA symposium, NTU Taipei, Apr. 26, 2013

■ ***Recent progress and controversy of QCD***

Invited talk given in the Forum on New Computation Methods in Physics, NCTU, Hsinchu, Nov. 1, 2012

■ ***Two-Boson Exchange effects in space-like regime***

Invited talk given in the workshop on OCD in two-photon processes, Academia Sinica, Taipei, Oct. 2-4, 2012

■ ***QCD Chiral restoration at finite T under magnetic field: A study based on the instanton vacuum model***

Contributed talk given in the fifth Asia-Pacific conference on Few-Body problems in Physics, at Seoul, Aug 21-26 2011.

■ ***Two-Boson Exchange effects in Parity-conserving and violating ep elastic scattering***

Invited talk given in HaPhy2011-8 international workshop “QCD and Few-body systems” Korean Aerospace University, Aug 20, 2011.

■ ***Two-Boson Exchange effects in Parity-conserving and violating ep elastic scattering***

Invited talk given in the 7th Joint Meeting of Chinese Physicists Worldwide (OCPA7), at Kaohsiung, Aug 1-5, 2011.

■ ***Two-Boson Exchange effects in Parity-conserving and violating ep elastic scattering***

Lecture given in the 15th Taiwan Nuclear Physics Summer School, Academic Sinica, Taipei, Taiwan, June 27-30, 2011.

■ ***Two-Boson Exchange effects in Parity-conserving and violating ep elastic scattering***

Invited talk at the 12th International Conference on the Structure of the Baryons (Baryon’10), RCNP, Osaka University, Osaka, Japan, Dec 7-Dec 11, 2010.

■ ***Two-Boson Exchange effects in PVES***

Invited talk at the 12th International Conference on Meson-Nucleon Physics and the Structure of the Nucleon (MENU2010), College of William and Mary Williamsburg, Virginia May 31-June 4, 2010.

■ ***Two-Boson-Exchange effects in parity-violating ep scattering***

Invited talk at the 8th Particle Physics Phenomenology (PPP8), Tainan, Taiwan, May 20 - 23, 2009.

■ ***How strange the nucleon is?***

Invited talk at the Workshop on the structure of Nucleon, Taipei, Taiwan, April 27, 2009.

■ ***Spin polarizabilities in Heavy Baryon Chiral Perturbation Theory***

Contributed talk at the 18th international symposium on spin physics, Charlottesville, Oct 6-11, 2008.

■ ***Chiral correction of Nucleon Generalized Parton Distributions***

Contributed talk at the 20th European Conference of Few-Body problems, Pisa, Italy, September 10-14, 2007.

■ ***Chiral correction of Nucleon Generalized Parton Distributions***

Invited talk at the Symposium on the 10th Anniversary of National Center for Theoretical Sciences September 3-4 2007.

■ ***Pion polarizabilities and radiative pion photoproduction***

Invited talk at the seventh particle physics phenomenology (PPP7) workshop, Taipei, Taiwan,

June 7-10, 2007.

■ ***Where is the two-photon-exchange effect and why should be bothered by them?***

Invited talk at the workshop ``Fundamental Neutron Physics'', Institute of Nuclear Theory (INT), University of Washington, Seattle, USA, March 19- June 8, 2007 .

■ ***Leading chiral correction to the nuclear generalized parton distributions***

Contributed talk at the annual meeting of physical Society of R.O.C. at Chung-Li, Taiwan, Jan 23 - 25, 2007.

■ ***Nucleon polarizabilities in chiral effective field theory***

Invited talk at the Fifth Joint Meeting of Chinese Physicists Worldwide(OCPA5) at Taipei, Taiwan, June 27 - 30, 2006.

■ ***Polarizabilities in HBChPT***

Invited talk at international workshop ``Two Photon Physics'', ECT*, Trento, Italy, May 23 - May 28, 2005.

■ ***The nucleon forward spin polarizability at order $O(p^5)$ in chiral perturbation theory***

Contributed talk given at the third International Symposium on the Gerasimov-Drell-Hearn sum rule and the spin structure of the nucleon, Norfolk, USA, June 2-5, 2004.

■ ***Burkhardt-Cottingham sum rule and forward spin polarizabilities in HBChPT***

Invited talk at workshop ``Compton Scattering from Low to High Momentum Transfer" ECT*, Trento, Italy, March 31 - April 4, 2003.

■ ***Spin-dependent VCS in HBChPT***

Invited talk at workshop ``Compton Scattering from Low to High Momentum Transfer", ECT*, Trento, Italy, March 31 - April 4, 2003.

■ ***The nucleon spin polarizabilities at order $O(p^4)$ in chiral perturbation theory***

Contributed talk given at the second International Symposium on the Gerasimov-Drell-Hearn sum rule and the spin structure of the nucleon, Genova, Italy, July 3-6, 2002.

■ ***The nucleon spin polarizabilities at order $O(p^4)$ in chiral perturbation theory***

Invited talk at collaboration meeting, ``Baryon structure probed with quasistatic electromagnetic fields", ECT*, Trento, Italy, April 15-19, 2002.

■ ***The RCS and VCS at order $O(p^4)$ in chiral perturbation theory***

Invited talk at collaboration meeting, ``Real and virtual Compton scattering off the nucleon, ECT*, Trento, Italy, April 19-24, 2001.

■ ***Generalized Drell-Hearn-Gerasimov sum rule***

Contributed talk given at the 16th international Conference on Few-Body Problems in Physics, Taipei, Taiwan, March 6-10, 2000.

■ *Delta and delta, the story of pion photoproduction in the Delta(1232) region*

Student talk given at National Nuclear Physics Summer School ,University of California, San Diego, USA, June 28- July 9, 1999.

Lecture Series:

■ *Bjorken scaling and DGLAP evolution*

07/12/2023 – 21/12/2023

國立陽明交通大學丘成桐中心

■ *Electroweak interaction*

28/06/2022 – 30/06/2022

NCTS HEP Summer Student Program 2022

■ *Phase of QCD*

11/2005 – 12/2005 National Tsing-Hua University, Hsinchu, Taiwan

Interview:

■ 有血有肉，曲折離奇的科學史:愛因斯坦冰箱

08/23/2019 鄭龜煮碗麵，泛科學，臺北

■ 決戰索爾維，九十年之後

02/12/2017 教育廣播電台, Taipei, Taiwan.

Public Lecture :

■ 天地有大美，萬物有成理

18/04/2025 國立臺灣師範大學粒子物理與宇宙學科普講座

■ 量子風華，百年一瞬

17/04/2025 國立陽明交通大學物理研究所 2025 物理科普講座

■ 眺望宇宙創生的瞬間! James Webb 望遠鏡簡介

14/12/2023 國立陽明交通大學物理研究所 2023 物理科普講座

■ 物理學家遇上《歐本海默》

17/08/2023 SciCom Today 「硬派浪漫，用科學打開世界的一百種方式」系列講座，

■ 故有斯人慰寂寥：從愛因斯坦的諾貝爾獎講起

23/12/2022 國立成功大學圖書館一冊一世界系列演講

■ 奧古斯丁:拉丁教會的形塑者

16/05/2022 中原大學理學院小組分享

■ 眾神也難逃一死，萬物復歸於熵 Götterdämmerung: our fate with fire and entropy

31/03/2022 國立陽明交通大學物理研究所 2021 物理科普講座

■ 肝膽楚越，俱為一體:電弱理論的故事

11/11/2021 國立陽明交通大學物理研究所 2021 物理科普講座

■ 嬰兒有什麼用？談電氣時代的降臨

13/06/2020 高雄市立岡山文化中心分館岡山講座

15/11/2019 科技部展望系列講座台灣大學應用力學研究所一樓演講廳

Colloquiums:

■ 量子力學誕生百年物語

25/04/2025 The Affiliated Senior High School of National Taiwan Normal University,
Taipei, Taiwan.

■ 十年一覺中原夢：科學史教學的十年點滴

04/12/2024 .Chung Yuan Christian University, Chung-Li, Taiwan.

【理學院創新教學工作坊教學研習分享活動】

■ 量子力學的百年風華

08/11/2024 The Affiliated Senior High School of National Taiwan Normal University,
Taipei, Taiwan.

■ 讓地球轉起來的辣些男人們

04/05/2023 通識課程「科學革命」，National Tsing-Hua University, Hsin-Chu, Taiwan.

■ 地磁三百年

09/12/2022 The Yuanli Senior High School , Mao-Li, Taiwan.

■ 薛丁格的 Crazy Idea

30/09/2022 The Affiliated Senior High School of National Taiwan Normal University,
Taipei, Taiwan.

■ 薛丁格，他的方程式與他的貓

25/02/2022 The Affiliated Senior High School of National Taiwan Normal University,
Taipei, Taiwan.

■ 淺談分子光譜

23/04/2021 The Affiliated Senior High School of National Taiwan Normal University,
Taipei, Taiwan.

■ 核彈與雷達：科學者的戰爭責任

07/04/2021 .Chung Yuan Christian University, Chung-Li, Taiwan.

【理學院科學與倫理工作坊教學研習分享活動】

■ 征服火星的占星大師：克卜勒的新天文學

26/11/2021 Tung-Hai University, Tai-Chung, Taiwan.

30/03/2021 臺大科教中心科學史沙龍, Taipei, Taiwan.

25/03/2021 National Yang-Ming Chiao-Tung University, Hsinchu , Taiwan

■ 與諾貝爾獎擦身而過的物理學家們

18/10/2020 華山文化園區 科學史沙龍, Taipei, Taiwan.

■ 墓碑不留白：物理學家的墓碑物語

09/07/2020 The Affiliated Zhongli Senior High School of National Central University,
Chung-Li, Taiwan.

- **瓦肯星夢碎**
26/05/2020 臺大科教中心科學史沙龍, Taipei, Taiwan.
- **失樂園:一個對量子理論發展的歷史考察**
11/01/2021 The KaoHsiung High School, KaoHsiung, Taiwan.
20/11/2020 The Affiliated Senior High School of National Taiwan Normal University, Taipei, Taiwan.
21/10/2020 Chung- Yuan Christian University, Chung-Li, Taiwan.
11/09/2020 Institute of Physics, National Chiao Tung University, Hsin-Chu, Taiwan.
07/04/2020 臺大科教中心科學史沙龍, Taipei, Taiwan.
- **四種意外**
21/03/2020 臺大科教中心探索講座, Taipei, Taiwan.
- **我在想誰是第三個人?**
26/11/2019 臺大科教中心科學史沙龍, Taipei, Taiwan.
- ***From old quantum theory to quantum mechanics***
14/01/2020 Institute of Physics, Academia Sinica, Taipei, Taiwan.
08/11/2019 The Affiliated Senior High School of National Taiwan Normal University, Taipei, Taiwan.
25/09/2019 National Changhua University of Education, Chang-Hua, Taiwan.
18/09/2019 National Tsing-Hua University, Hsin-Chu, Taiwan.
- **物理學家:高斯**
30/04/2019 臺大科教中心科學史沙龍, Taipei, Taiwan.
- **質子的一百歲生日**
03/04/2019 National Tai-Chung First Senior High School, Tai-Chung, Taiwan
- **電動力學的誕生**
27/11/2018 臺大科教中心科學史沙龍, Taipei, Taiwan.
- **叫我斯克沃夫斯卡居禮 *Call me Skłodowska-Curie***
15/05/2020 Tung-Hai university, Tai-Chung, Taiwan.
06/12/2019 National Chung Hsing university, Tai-Chung, Taiwan.
07/03/2019 National Chiao-Tung university, Hsin-Chu, Taiwan.
- **厲害了!我的(祖師)爺! *My superb (Academic) GrandPa***
22/05/2019 National Kao Hsiung senior high School, Kao-Hsiung, Taiwan.
18/10/2018 National Chiao Tung University, Hsin-Chu, Taiwan.
- **晚期古典世界的科學**
09/10/2018 National Chung Hsing University, Taichung, Taiwan.
- **誰怕哥白尼?**
26/09/2018 Fu-Jen Catholic University, Hsin-Chuan, Taiwan.
- **中世紀伊斯蘭科學的發展**
20/03/2018 National Chung Hsing University, Taichung, Taiwan.

- **野人獻曝：磨課師課程製作心得分享**
22/11/2017 Chung Yuan Christian University, Chung-Li, Taiwan.
- **決戰索爾維，九十年之後**
11/11/2017 泛知識節, Taipei, Taiwan.
- **靜靜聆聽電磁交響曲**
07/06/2017 Chung Yuan Christian University, Chung-Li, Taiwan.
- ***Medieval University and Translation of Greek classics***
21/03/2017 National Chung Hsing University, Taichung, Taiwan.
- **時空簡史：原天地之美 達萬物之理**
17/04/2017 National Dong-Hwa University, Hualien, Taiwan.
25/10/2016 Chung Yuan Christian University, Chung-Li, Taiwan.
- **野人獻曝：科學史教學點滴**
29/03/2016 Chung Yuan Christian University, Chung-Li, Taiwan.
- ***Medieval Scholasticism and modern science***
15/03/2016 National Chung Hsing University, Taichung, Taiwan.
- ***Is vacuum empty: from Aether to Higgs***
14/12/2015 National Tai-Chung First Senior High School, Tai-Chung, Taiwan
- ***Hunting the invisible: neutrino oscillation (special colloquium to high school teachers)***
25/11/2015 Chung-Yuan Christian University, Chungli, Taiwan
- ***Introduction to 2015 Nobel physics prize***
14/10/2015 Chung-Yuan Christian University, Chungli, Taiwan
- ***Symmetry and Dynamics***
02/03/2015 National Central University, ChungLi, Taiwan.
- ***The road to Matrix Mechanics***
04/05/2018 National Chung Hsing University, Taichung, Taiwan.
21/03/2018 National Changhua University of Education, Chang-Hua, Taiwan.
16/03/2017 National Chiao-Tung University,
Department of eletrophysics, Hsin-Chu, Taiwan.
24/02/2017 Tung Hai University, Tai-Chung, Taiwan.
17/11/2014 National Dong-Hwa University, Hualien, Taiwan.
04/03/2014 National Central University, Chungli, Taiwan
- ***What a colourful world: All about QCD***
28/10/2014 National Sun Yet-Sen University, Kaohsiung, Taiwan.
- ***What a colourful world: phase structure of QCD***
16/10/2014 National Chiao Tung University, Hsinchu, Taiwan.
- ***The story of Higgs boson***
08/01/2014 Chung-Yuan Christian University, Chungli, Taiwan
20/12/2013 National Chung Hsing University, Taichung, Taiwan.

- 21/10/2013 National Cheng Kung University, Tainan, Taiwan.
- ***When science makes a difference: The story of Atomic bomb***
14/10/2013 Chung-Yuan Christian University, Chungli, Taiwan
 - ***How did Revolution start?***
23/4/2012 Insititute of Physics, Academia Sinica, Taipei, Taiwan.
 - ***All about the size: puzzle of proton radius***
04/04/2012 Korea Institute of Advanced study, Seoul, Korea.
22/03/2012 National Chiao-Tung University, Hsinchu , Taiwan
 - ***Bond of Bomb: The story of atomic bomb***
18/11/2010 National Chiao-Tung University, Hsinchu , Taiwan
 - ***Rediscover the proton***
06/10/2010 National Normal University, Taipei , Taiwan
 - ***That wonderful summer in 1925: Genesis of Matrix Mechanics***
24/12/2009 National Chiao-Tung University, Hsinchu , Taiwan
 - ***Quark Models: Questionable Miracle or Quixotic Madness?***
28/09/2009 Chung-Yuan Christian University, Chungli , Taiwan
22/11/2007 National Chiao-Tung University, Hsinchu , Taiwan
 - ***Effective field theory for nuclear physics***
06/03/2006 Chung-Yuan Christian University, Chungli, Taiwan.

Seminars:

- ***Fallacies of Hope or Oracle of Delphi?***
18/05/2023 National Tsing-Hua University, Hsin Chu, Taiwan.
- ***Parton physics in EIC era***
22/09/2022 National Yang-Ming Chiao-Tung University, Hsin-Chu, Taiwan.
- ***Valence quark distributions of pion and kaon***
08/10/2021 Academia Sinica, Taipei, Taiwan.
- ***Two is more than one***
29/04/2021 National Yang-Ming Chiao-Tung University, Hsin-Chu, Taiwan.
- ***3-D image of hadrons***
11/09/2020 National Chiao-Tung University, Hsin-Chu, Taiwan.
- ***Fifth force? Mysterious 17 MeV resoanace***
24/12/2019 National Chiao-Tung University, Hsin-Chu, Taiwan
03/12/2019 National Dong-Hwa University, Hau-Lien, Taiwan.
- ***Di-hadron fragmentation function: A model-independent search***

21/11/2017 National Chiao-Tung University, Hsin-Chu, Taiwan.

■ ***Modeling Fragmentation functions***

23/02/2017 National Chiao-Tung university, Hsin Chu, Taiwan

19/12/2016 National Taiwan university, Taiwan

06/12/2016 Tamkang university, Taipei, Taiwan

20/10/2016 National Tsing-Hua University, Hsin Chu, Taiwan.

19/07/2016 Riken Nishina centre, Wako, Japan

■ ***Fragmentation functions and SIDIS***

06/11/2015 Academia Sinica, Taipei, Taiwan.

■ ***QCD phase diagram under strong magnetic fields***

18/11/2014 National Dong Hwa University, Hualien, Taiwan.

20/05/2014 National Chiao Tung University, Hsinchu, Taiwan.

■ ***A question with too many solutions: Proton size puzzle***

20/03/2013 National Central University, Chungli, Taiwan.

14/12/2012 Institute of Physics, Academia Sinica, Taipei, Taiwan..

■ ***Two is too many: A personal review of Two-photon physics***

22/03/2012 National Chiao Tung University, Hsinchu, Taiwan.

15/10/2008 University of Maryland, College Park, USA

14/10/2008 George Washington University, Washington D.C. USA

23/05/2007 National Taiwan University, Taipei, Taiwan

24/12/2007 National Taiwan Normal University, Taipei, Taiwan

■ ***Theoretical review on TBE physics: odyssey in the box.***

04/03/2011 Academia Sinica, Taipei, Taiwan.

■ ***Theoretical review on the puzzle of the size of the proton.***

15/10/2010 National Taiwan University, Taipei, Taiwan.

■ ***Highlight on MENU2010 conference***

18/06/2010 National Taiwan University, Taipei, Taiwan.

■ ***Open the box to find something strange!***

19/11/2009 National Cheng-Kung University, Tainan, Taiwan.

13/11/2009 National Dong-Hwa University, Hualien, Taiwan.

- ***Nucleon polarizabilities: Theory and experiments***
30/03/2007 National Taiwan University, Taipei, Taiwan.
- ***Where is the two-photon effect and why should you be bothered by them?***
15/11/2006 National Central University, Chungli, Taiwan.
- ***Symmetry and nothing but symmetry II***
09/05/2006 National Tsing-Hua University, Hsinchu, Taiwan.
- ***Symmetry and nothing but symmetry***
25/04/2006 National Tsing-Hua University, Hsinchu, Taiwan.
- ***Dilute fermion system at unitary limit and effective field theory***
21/03/2006 National Tsing-Hua University, Hsinchu, Taiwan.
23/02/2006 Institute of atomic and molecular science, Academia Sinica, Taiwan.
- ***The highlights in the Trento two-photon physics meeting***
02/06/2005 National Taiwan University, Taipei, Taiwan.
- ***Many body methods and effective field theory***
19/05/2005 National Taiwan University, Taipei, Taiwan.
- ***The pion polarizabilities and chiral effective theory***
06/05/2005 National Tsing-Hua University, Hsinchu, Taiwan.
09/03/2005 University of Virginia, Charlottesville, USA.
- ***The nucleon forward spin polarizability at order $O(p^5)$ in chiral perturbation theory***
28/04/2005 National Taiwan University, Taipei, Taiwan.
29/03/2004 Jefferson Lab, Newport News, USA.
18/02/2004 University of Maryland, College Park, USA.
- ***Magnetic screening in an anisotropic medium***
24/09/2004 Academia Sinica, Taipei, Taiwan.
23/09/2004 National Central University, Jungli, Taiwan.
22/09/2004 National Taiwan University, Taipei, Taiwan.
21/09/2004 National Center for Theoretical Sciences, Hsinchu, Taiwan.
04/03/2004 North Carolina State University, Raleigh, USA.
14/10/2003 National Dong-Hwa University, Hualien, Taiwan.
- ***What can we learn from low energy Compton scattering?***

06/03/2003 National Cheng-Kung University, Tainan, Taiwan.

07/02/2003 Ohio State University, Coulombs, USA.

05/02/2003 North Carolina State University, Raleigh, USA.

03/02/2003 Lawrence Berkeley National Lab, Berkeley, USA.

■ ***The nucleon spin polarizabilities at order $O(p^4)$ in chiral perturbation theory***

22/05/2003 Ruhr-Universität, Bochum, Germany.

■ ***Nonequilibrium QCD at RHIC***

11/02/2002 Los Alamos National Lab, Los Alamos, USA.

■ ***Parity violation in γp Compton scattering***

20/02/2001 KVI, Groningen, Netherlands.

15/02/2001 PSI, Switzerland.

09/01/2001 National Cheng-Kung University, Tainan, Taiwan.

06/11/2000 Johannes Gutenberg Universität, Mainz, Germany.

■ ***Generalized Drell-Hearn-Gerasimov sum rule***

13/03/2000 National Center for Theoretical Sciences, Hsinchu, Taiwan.

03/2000 National Cheng-Kung University, Tainan, Taiwan.

■ ***Delta and delta, the story of pion photoproduction in the Delta(1232) region***

03/1999 University of Indiana, Bloomington, USA.

12/1998 National Tsing-Hua University, Hsinchu, Taiwan.

12/1998 National Taiwan University, Taipei, Taiwan.

12/1998 National Cheng-Kung University, Tainan, Taiwan.

Popular Science Books:

■ **愛因斯坦冰箱：從科學家故事看物理概念如何環環相扣，形塑現代世界**

2019/07/18 商周出版社 出版

ISBN:9789864776658

■ **歪打正著的科學意外**

第二章：四種意外-斬斷光電磁糾纏在一起的哥丁結

2021/12/24 三民出版社 出版

ISBN:9789571473123

Popular Science Articles:

■ **吳健雄：東方的居禮夫人**

科學研習 52-12

■ **質子大小之謎**

中原大學知識通訊創刊號

■ **莉澤·邁特納：德國的居禮夫人**

中原大學知識通訊創刊號

■ **2013 年諾貝爾物理獎簡介**

中原大學知識通訊第二期

■ **包立:其人其事 (I)**

中原大學知識通訊第二期

■ **包立:其人其事 (II)**

中原大學知識通訊第三期

■ **海更斯的故事**

中原大學知識通訊第四期

■ **哈雷慧星發現者:愛德蒙·哈雷**

中原大學知識通訊第五期

■ **隕落在歐戰戰場的兩顆流星**

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■ **拿破崙的科學家(上):拉普拉斯**

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■ **拿破崙的科學家(下):傅利葉**

中原大學知識通訊第八期

■ **愛爾蘭之光:威廉羅文漢密爾頓(上)**

中原大學知識通訊第九期

■ **愛爾蘭之光:威廉羅文漢密爾頓(下)**

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■ **為科學而生、為科學而死的偉人:波茲曼(上)**

中原大學知識通訊第十一期

■ **為科學而生、為科學而死的偉人:波茲曼(下)**

中原大學知識通訊第十二期

■ **仁科芳雄(上)**

中原大學知識通訊第十三期

■ **仁科芳雄(下)**

中原大學知識通訊第十四期

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- **理研的故事之浴火重生的鳳凰**
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物理雙月刊 39 卷 1 期, 2017 年會特刊

- **電磁英雄列傳之三:厄斯特**
物理雙月刊網頁
物理雙月刊 39 卷 2 期, 2017 年會特刊
- **電磁英雄列傳之四: 安培**
物理雙月刊網頁
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- **電磁英雄列傳之五: 法拉第(上)**
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- **電磁英雄列傳之五: 法拉第(下)**
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- **電磁英雄列傳之七: 亨利**
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- **周期表背後的物理學家(六) 愈來愈長的週期表 (下)**
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- **普及牛頓理論的功臣:德薩古里耶**
物理雙月刊網頁
- **與諾貝爾獎擦身而過的物理學家們:被丟包的合作者(一)**
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- **與諾貝爾獎擦身而過的物理學家們:被丟包的合作者(二)**

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刊載於物理雙月刊 43 卷 1 期

■ **與諾貝爾獎擦身而過的物理學家們:被丟包的合作者(三)**

物理雙月刊網頁

刊載於物理雙月刊 43 卷 1 期

■ **量與諾貝爾獎擦身而過的物理學家們:雖敗猶榮的競爭者(一)**

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■ **與諾貝爾獎擦身而過的物理學家們:雖敗猶榮的競爭者(二)**

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■ **與諾貝爾物理獎擦身而過的發明家**

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■ **千里共 SN(上)**

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■ **千里共 SN(下)**

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■ **與諾貝爾獎擦身而過的數學家**

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■ **瓦肯星夢碎**

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■ **義大利探險家與他的水手們(上)**

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刊載於物理雙月刊四十四卷二期

■ **長壽的物理學家們(一): 奧立馮特(上) 來自澳大利亞的火爆浪子**

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■ **長壽的物理學家們(一): 奧立馮特(下) 好戰的和平主義者**

物理雙月刊網頁

■ **榮獲諾貝爾化學獎的物理學家們(一)**

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■ **長壽的科學家(二) 田中館愛橘(上):從安政到昭和的科學生涯**

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■ **長壽的科學家們(二) 田中館愛橘(下):地球的第二顆衛星**

物理雙月刊網頁

■ **榮獲諾貝爾化學獎的物理學家們(二)**

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■ **壯志未酬的印度核計畫之父:巴巴**

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■ **奠定海洋學基礎的壯舉(上):日不落帝國的榮光**

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■ **奠定海洋學基礎的壯舉(下):挑戰者號的七萬里長征**

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■ **隱身幕後的科學大金主:魯米斯**

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■ **地球物理的祖師爺:維切特**

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■ **維切特的弟子們**

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■ **來自布魯日的奇人:西蒙 史蒂文 (上) 荷蘭獨立戰爭的諸葛亮**

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■ **來自布魯日的奇人:西蒙 史蒂文 (下) 低地國的文藝復興人**

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■ **暴坊將軍?不，是天文將軍!(下): 黑船來臨前的深夜**

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- **薪火相傳(下):從阿拉伯文到拉丁文**
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- **阿爾瓦雷茨的斜槓人生(上):從雷達到原子彈**
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- **電影「歐本海默」該出場而沒出場的科學家群像(上)**
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- **電影「歐本海默」該出場而沒出場的科學家群像(下)**
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- **追逐宇宙射線的獵人:羅西 (上) 來自威尼斯的猶太人**
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- **以小博大的利器:魚雷(下)從天而降的死神**

物理雙月刊網頁

- **邁向解析力學之路第一集:吵架王達朗拜(上)從棄嬰到院士**

物理雙月刊網頁

- **邁向解析力學之路第一集:吵架王達朗拜(下)百科全書派的健將**

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- **邁向解析力學之路第二集:縱情聲色的快樂學者:神童克萊羅**

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- **邁向解析力學之路第三集:最小作用量原理的莫佩爾蒂**

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- **普物實驗背後的故事(二) 邁克生干涉實驗**

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- **No time to be brief (中) 量子革命的黃金十年**

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- **No time to be brief (下) 踏入現代物理的瓦爾哈拉**

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- **改變軍事與能源的力量—核分裂與核融合**
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- **最有創造力的物理巨人 菲利普·安德森**
刊載於科學月刊 611 期
- **量子力學的百年辯駁**
刊載於科學月刊 649 期

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- **《潛入！天才科學家的實驗室》**
出版社：小角落文化 出版日期：2022/03/25

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- **《沙灘上的愛因斯坦，生活中的相對論》推薦序**
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- **《相對論的意義：在普林斯頓大學的四個講座》導讀**
出版社：五南 出版日期：2021/04/28
- **《叛逆的科學家》推薦序**
出版社：商周 出版日期：2021/09/11
- **《關於宇宙，我們什麼都不知道》推薦文**
出版社：天下 出版日期：2023/09/28

評審:

■ 2021 OpenBook 好書獎 年度中文創作/年度翻譯書 非文學類 評審

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- Dr Hiroaki Kohyama (Aug 2010 ~July 2012)
- Dr. Kenji Ogawa (August 2012~July 2013)
- Dr. Di-Lung Yang (August 2014-October 2014)
- Dr. Michael Bögli (January 2015-March 2015)
- Dr. Akira Watanabe (August 2016-July 2017)
- Dr Caroline Pidade Felix (January 2020-June 2022)

My former students (大學部專題生):

- 吳秉曄 (2012 graduated), graduated from NTHU master program.
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