

國立臺北教育大學 理學院

院長候選人基本資料表

壹、被推薦之院長候選人基本資料表

姓名	鄭彥修（50 歲）			
現職	服務學系	數學暨資訊教育學系		
	到校時間	101 年 8 月		
	教授證書起資年月	110 年 8 月		
大學以上學歷	學校名稱	學院系所	學位名稱	領受學位年月
	國立中山大學	應用數學系	理學博士	94 年 6 月
	國立中山大學	應用數學系	理學碩士	89 年 6 月
	國立中山大學	應用數學系	學士	87 年 6 月
主要經歷	服務機關學校	專兼任	職稱(職級)	任職起迄年月
	國立臺北教育大學	兼任	系主任	111 年 8 月~113 年 7 月

※ 本院院長候選人除應具教育人員任用條例及相關法令規定之資格外，應具備以下各項條件。請於以下選項勾選符合本院規定之院長候選人條件：

- ☒ 一、具教育部審定合格在本校擔任專任教授滿五年（含）以上，或在本院擔任專任教授滿三年（含）以上者。
- ☒ 二、曾任本校學術或行政一級主管累積滿二年以上者。
- ☒ 三、具有服務熱忱、行事公正、品德高尚，及在學術上具有優良成就及聲譽者。

【備註】

- 一、以上候選人相關年資之計算，核計至候選人登記截止日為止。
- 二、本院長候選人基本資料表（共5頁），請詳實填寫，並請附教授證書、最高學歷及各經歷之服務證明書影本，如有外國文件請公證，並附中譯本，以供本院選委會委員參考。

被推
薦人
簽署
同意

本人已充分瞭解「國立臺北教育大學理學院院長選任辦法」之規定
並同意被推薦為候選人，所填送各項表格之所有資料均確實無誤。

茲親自簽名於下：

鄭 尚 偉

114年 4 月 8 日

貳、學術獎勵及榮譽事蹟

授 獎 單 位	內 容	時 間	文 號
國立臺北教育大學	本校優良導師	112 學年度	附件 1
國家科學及技術委員會	彈性薪資獎勵	111 年度	附件 2
科技部	彈性薪資獎勵	110 年度	附件 3
國立臺北教育大學	本校優良導師	109 學年度	附件 4
國立臺北教育大學 理學院	教學表現優良教師	109 學年度	附件 5
科技部	彈性薪資獎勵	108 年度	附件 6
國立臺北教育大學 理學院	輔導表現優良	107 學年度	附件 7
國立臺北教育大學	本校優良導師	106 學年度	附件 8
中華民國數學會	優良論文獎	94 年 12 月 16 日	附件 9
國家科學及技術委員會	研究計畫獎勵	97~98 學年度 102~111 學年度	附件 10

註：1. 本表若不敷使用請自行增列表格。
 2. 如有證明文件請附影本。
 3. 如為外國文件請公證，並附中譯本。

參、著作或發明目錄

一、請詳列個人近幾年發表之學術性著作，包括期刊論文、專書及專書論文、研討會論文、技術報告及其他等，並請依順序填寫，著作之重要性亦請自行排列先後順序。

二、各類著作請依發表時間先後順序填寫，各項著作請依作者（按原出版之次序）、出版年、月份、題目、期刊名稱（專書出版社）及起迄頁數之順序填寫。

期刊論文

1. Y.H. Cheng, C.K. Law* and J. Tsay, 2000, Remarks on a new inverse nodal problem, Journal of Mathematical Analysis and Applications 248, 145-155. (SCI, 2000 Impact Factor:0.431)
2. Y.T. Chen, Y.H. Cheng, C.K. Law* and J. Tsay, 2002, L1 convergence of the reconstruction formula for the potential function, Proceedings of the American Mathematical Society 130, 2319-2324. (SCI, 2002 Impact Factor:0.334, Ranking:116/170=68.2%, Subject Category: Mathematics)
3. Y.H. Cheng, C.T. Shieh* and C.K. Law, 2005, A vectorial inverse nodal problem, Proceedings of the American Mathematical Society 133, 1475-1484. (SCI, 2005 Impact Factor:0.429, Ranking:101/181=55.8%, Subject Category: Mathematics)
4. Y.H. Cheng and C.K. Law*, 2006, On the quasinodal map for the Sturm-Liouville problem, Proceedings of the Royal Society of Edinburgh: Section A 136, 71-86. (SCI, 2006 Impact Factor:0.684, Ranking:55/187=29.4%, Subject Category: Mathematics)
5. Y.H. Cheng and C.K. Law*, 2006, The inverse nodal problem for Hill's equation, Inverse Problems 22, 892-901. (SCI, 2006 Impact Factor:1.319, Ranking:18/150=12%, Subject Category: Mathematics, Applied)
6. Y.H. Cheng*, T.E. Wang and C.J. Wu, 2010/07, A note on eigenvalue asymptotics for Hill's equation, Applied Mathematics Letters 23, 1013-1015. (SCI, 2010 Impact Factor:1.155, Ranking:63/236=26.7%, Subject Category: Mathematics, Applied)
7. Y.H. Cheng*, S.Y. Kung, C.K. Law and W.C. Lian, 2010/11, The dual eigenvalue problems for the Sturm-Liouville system, Computers & Mathematics with Applications 60, 2556-2563. (SCI, 2010 Impact Factor:1.472, Ranking:33/236=14.0%, Subject Category: Mathematics, Applied)
8. X. Chen, Y.H. Cheng and C.K. Law*, 2011/09, Reconstructing potentials from zeros of one eigenfunction, Transactions of the American Mathematical Society 363, 4831-4851. (SCI, 2011 Impact Factor:1.093, Ranking:33/289=11.4%, Subject Category: Mathematics)
9. W.C. Wang*, Y.H. Cheng and W.C. Lian, 2011/12, Inverse nodal problems for the p-Laplacian with eigenparameter dependent boundary conditions, Mathematical and Computer Modelling 54, 2718-2724. (SCI, 2011 Impact Factor:1.346, Ranking:40/245=16.3%, Subject Category: Mathematics, Applied)

10. Y.H. Cheng*, 2012/09, Reconstruction of the Sturm-Liouville operator on a p-star graph with nodal data, Rocky Mountain Journal of Mathematics 42, no. 5, 1431-1446. (SCIE, 2012 Impact Factor : 0.389, Ranking : 232/295 = 78.6%, Subject Category : Mathematics)
11. X. Chen, Y.H. Cheng and C.K. Law*, 2012/11, A Tikhonov Regularization for the Inverse Nodal Problem for p-Laplacian, Journal of Mathematical Analysis and Applications 395, 230-240. (SCI, 2012 Impact Factor : 1.050, Ranking : 34/295 = 11.5%, Subject Category : Mathematics)
12. Y.H. Cheng*, 2012/12, An eigenvalue problem for vibrating strings with concave densities, Applied Mathematics Letters 25, 2077-2080. (SCI, 2012 Impact Factor : 1.501, Ranking : 33/247 = 13.4%, Subject Category : Mathematics, Applied)
13. W.C. Lian*, W.C. Wang and Y.H. Cheng, 2013/03, Existence of sign-changing solutions for the nonlinear p-Laplacian boundary value problem, Analysis and Applications 11(2), 1350004, 15pp. (SCIE, 2013 Impact Factor : 1.500, Ranking : 14/299 = 4.7%, Subject Category : Mathematics)
14. Y.H. Cheng*, K.C. Hung and S.H. Wang, 2013/09, Global bifurcation diagrams and exact multiplicity of positive solutions for a one-dimensional prescribed mean curvature problem arising in MEMS, Nonlinear Analysis: Theory, Methods and Applications 89, 284-298. (SCI, 2013 Impact Factor : 1.612, Ranking : 12/302 = 4.0%, Subject Category : Mathematics)
15. Y.H. Cheng*, W.C. Lian and W.C. Wang, 2014/02, The dual eigenvalue problems for p-Laplacian, Acta Mathematica Hungarica 142(1), 132-151. (SCIE, 2014 Impact Factor : 0.429, Ranking : 233/310 = 75.2 %, Subject Category: Mathematics)
16. W.C. Wang* and Y.H. Cheng, 2014/3, An inverse problem related to a half-linear eigenvalue problem, Boundary Value Problems, 2014:65. (SCIE, 2014 Impact Factor : 1.014, Ranking : 48/310 = 15.5%, Subject Category : Mathematics)
17. W.C. Wang* and Y.H. Cheng, 2014/6, On the existence of sign-changing radial solutions to nonlinear p-Laplacian equations in R_n , Nonlinear Analysis: Theory, Methods and Applications 102, 14–22. (SCI, 2014 Impact Factor : 1.327, Ranking : 26/310 = 8.4%, Subject Category : Mathematics)
18. Y.H. Cheng*, 2014/6, Eigenvalue problems with p-Laplacian operators, Electronic Journal of Differential Equations, Vol. 2014 (2014), No. 139, pp. 1-11. (SCIE, 2014 Impact Factor : 0.524, Ranking : 185/310 = 59.68%, Subject Category : Mathematics)
19. K.C. Hung*, Y.H. Cheng, S.H. Wang, and C.H. Chuang, 2014/11, Exact multiplicity and bifurcation diagrams of positive solutions of a one-dimensional multiparameter prescribed mean curvature problem, Journal of Differential Equations, Vol. 257 (2014), Issue 9, 3272–3299. (SCI, 2014 Impact Factor : 1.680, Ranking : 16/310 = 5.2%, Subject Category : Mathematics)

20. Y.H. Cheng, C.K. Law* and Y.C. Luo, 2014/12, Distribution of the Prufer angle in p-Laplacian eigenvalue problems, *Electronic Journal of Differential Equations*, Vol. 2014 (2014), No. 255, pp. 1-8. (SCIE, 2014 Impact Factor : 0.524, Ranking : 185/310 = 59.68%, Subject Category : Mathematics)
21. Y.H. Cheng, C.K. Law*, W.C. Lian and W.C. Wang, 2015/8, An inverse nodal problem and Ambarzumyan problem for the periodic p-Laplacian operator with integrable potentials, *Taiwanese Journal of Mathematics*, Vol. 19, No. 4, 1305-1316. (SCI, 2015 Impact Factor : 0.617, Ranking : 154/312 = 49.4%, Subject Category : Mathematics)
22. Y.H. Cheng and W.C. Wang*, 2016/5, Inverse nodal problems for the p-Laplacian with eigenparameter dependent energy functions, *Boundary Value Problems*, 2016(1), 1-15. (SCIE, 2016 Impact Factor : 0.819, Ranking : 98/310 = 31.6%, Subject Category : Mathematics) (2016 SJR : 0.570, Ranking : 46/100 = 46.00%, Subject Category : Algebra and Number Theory, Q3)
23. Y.H. Cheng, K.C. Hung, and S.H. Wang*, 2016/7, Classification and evolution of bifurcation curves for a one-dimensional prescribed mean curvature problem, *Differential and Integral Equations*, Vol. 29, No. 7-8, 631-664. (SCIE, 2016 Impact Factor : 0.565, Ranking : 183/310=59.0%, Subject Category : Mathematics, Q3) (2016 SJR : 1.045, Ranking : 123/586 = 20.99%, Subject Category : Applied Mathematics, Q2)
24. Y.H. Cheng*, K.C. Hung and S.H. Wang, 2016/11, On the classification and evolution of bifurcation curves for a one-dimensional prescribed curvature problem with nonlinearity $\exp\left(\frac{au}{a+u}\right)$, *Nonlinear Analysis: Theory, Methods and Applications*, Vol. 146, 161-184. (SCI, 2016 Impact Factor : 1.192, Ranking : 41/310 = 13.2%, Subject Category : Mathematics) (2016 SJR : 1.520, Ranking : 59/586 = 10.07%, Subject Category : Applied Mathematics, Q1)
25. Y.H. Cheng and Wei-Chuan Wang*, 2017/3, Nodal properties for p-Laplacian systems, *Electronic Journal of Differential Equations*, Vol. 2017 (2017), No. 87, 1-8. (SCIE, 2017 Impact Factor : 0.944, Ranking : 83/310 = 26.77%, Subject Category : Mathematics, Q2) (2017 SJR : 0.538, Ranking : 72/151 = 47.68%, Subject Category : Analysis, Q3)
26. W.C. Wang and Y.H. Cheng*, 2017/6, Sign-changing solutions to a class of nonlinear equations involving p-Laplacian, *Rocky Mountain Journal of Mathematics*, Vol. 47, No. 3, 971-996. (SCIE, 2017 Impact Factor : 0.330, Ranking : 289/310 = 93.22%, Subject Category : Mathematics, Q4) (2017 SJR : 0.398, Ranking : 206/445 = 46.29%, Subject Category : Mathematics (miscellaneous), Q3)
27. Y.H. Cheng and W.C. Wang*, 2020/1, Some remarks on a nonhomogeneous eigenvalue problem related to generalized trigonometric functions, *Nonlinear Analysis: Theory, Methods and Applications*, Vol. 190, 111614. (SCIE, 2020 Impact Factor : 2.064, Ranking : 36/330 = 10.91%, Subject Category : Mathematics, Q1) (2020 SJR : 1.674, Ranking : 38/579 = 6.56%, Subject Category : Applied Mathematics, Q1)
28. Wei-Chua Chen and Y.H. Cheng*, 2020/7, Remarks on the one-dimensional sloshing problem involving the p-Laplacian operator, *Turkish Journal of Mathematics*, Vol. 44, No. 4, 1376-1387. (SCIE, 2020 Impact

- Factor : 0.803, Ranking : $213/330 = 64.55\%$, Subject Category : Mathematics, Q3) (2020 SJR : 0.454, Ranking : $196/440 = 44.55\%$, Subject Category : Mathematics (miscellaneous), Q2)
29. Y.H. Cheng*, 2020/10, On the Neumann eigenvalues for second-order Sturm-Liouville difference equations, *Advances in Difference Equations* 2020, 599(2020). (SCIE, 2020 Impact Factor : 2.803, Ranking : $13/330 = 3.94\%$, Subject Category : Mathematics, Q1) (2020 SJR : 0.670, Ranking : $189/616 = 30.68\%$, Subject Category : Applied Mathematics, Q2)
30. Y.H. Cheng*, 2020/11, Reconstruction and stability of inverse nodal problems for energy-dependent p-Laplacian equations, *Journal of Mathematical Analysis and Applications* 491(2), Article 124388. (SCIE, 2020 Impact Factor : 1.583, Ranking : $63/330 = 19.09\%$, Subject Category : Mathematics, Q1) (2020 SJR : 0.951, Ranking : $121/616 = 19.64\%$, Subject Category : Applied Mathematics, Q1)
31. Y.H. Cheng*, 2021/9, The dual eigenvalue problems of the conformable fractional Sturm-Liouville problems, *Boundary Value Problems* 2021, Article number: 83 (2021). (SCIE, 2021 Impact Factor : 1.793, Ranking : $53/332 = 15.96\%$, Subject Category : Mathematics, Q1) (2021 SJR : 0.573, Ranking : $70/171 = 40.94\%$, Subject Category : Analysis, Q2)
32. Y.H. Cheng, Kuo-Chih Hung*, Shin-Hwa Wang and Jhih-Jyun Zeng, 2022/05, Upper and lower bounds for the pull-in voltage and the pull-in distance for a generalized MEMS problem, *Mathematical Biosciences and Engineering* 19(7), 6814-6840. (SCIE, 2021 Impact Factor : 2.194, Ranking : $37/67 = 55.22\%$, Subject Category : Mathematical & Computational Biology, Q3) (2021 SJR : 0.509, Ranking : $269/565 = 47.61\%$, Subject Category : Applied Mathematics, Q2)
33. W.C. Wang and Y.H. Cheng*, 2022/08, On nodal properties for some nonlinear conformable fractional differential equations, *Taiwanese Journal of Mathematics* 26(4), 847-865. (SCIE, 2021 Impact Factor : 0.870, Ranking : $191/332 = 57.53\%$, Subject Category : Mathematics, Q3) (2021 SJR : 0.423, Ranking : $205/444 = 46.17\%$, Subject Category : Mathematics (miscellaneous), Q2)
34. X.B. Wei*, Y.H. Cheng and Y.P. Wang, 2022/10, The partial inverse spectral and nodal problems for Sturm-Liouville operators on a star-shaped graph, *Mathematics* 2022, 10(21), 3971. (SCIE, 2022 Impact Factor : 2.3, Ranking : $21/489 = 4.29\%$, Subject Category : Mathematics, Q1) (2022 SJR : 0.475, Ranking : $131/344 = 38.08\%$, Subject Category : Computer Science (miscellaneous), Q2)
35. Y. P. Wang, Y.H. Cheng and X. B. Wei*, 2024/4, The Uniqueness of Sturm-Liouville Problems on a P-Star Graph, *Journal of Applied Mathematics and Computation* 8(1), 7-15.

研討會論文

1. Remarks on a new inverse nodal problem, 20001208-20001210, 2000 年國際數學與統計研討會暨第 34 屆中華民國數學會年會, 淡江大學.
2. A vectorial inverse nodal problem, 20020109-20020112, International Conference on Inverse Problems -

Recent Developments in Theories and Numerics, City University of Hong Kong.

3. On the nodal map of the inverse Sturm-Liouville problem, 20031219-20031221, 2003 年數學學術研討會暨第 37 屆中華民國數學年會, 中央大學.
4. The quasinodal map and the inverse nodal problem, 20040616-20040621, The 2nd International Conference on Inverse Problems - Recent Theoretical Development and Numerical Approaches, Fudan University, Shanghai.
5. Inverse problem for the first instability interval in Schrodinger equation, 20081219-20081221, 2008 年數學學術研討會暨中華民國數學年會, 國立清華大學.
6. Inverse problems for the p-Laplacian operator, 20091127, 2009 非線性分析與應用研討會, 國立高雄師範大學.
7. Reconstructing potentials using nodal points in Schrodinger equation, 20010109-20090111, 第 17 屆微分方程研討會, 國立高雄大學.
8. Reconstructing potentials from zeros of one eigenfunction, 20100712-20100716, 2010 SIAM Annual Meeting, University of Pittsburgh, USA.
9. The gap of the first two eigenvalues for the p-Laplacian, 20101210-20101212, 2010 年數學學術研討會暨中華民國數學年會, 國立彰化師範大學.
10. The Tikhonov regularization method on inverse nodal problems, 20110912-20110921, The 4th Mathematical Society of Japan, Seasonal Institute - Nonlinear Dynamics in Partial Differential Equations, Kyushu University, Japan.
11. Inverse spectral problems for p-Laplacian, 20111209-20111211, 2011 年數學學術研討會暨中華民國數學年會, 中原大學.
12. Inverse nodal problems for the p-Laplacian eigenvalue problem, 20120227-20120228, The 3rd Taiwan-Japan Joint Workshop for Young Scholars in Applied, 國立台灣大學.
13. The generalized sine function of the p-Laplacian problem, 20121214, 2012 分析與微分方程研討會, 國立新竹教育大學.
14. On the first instability interval of the string equation, 20140813-20140821, International Congress of Mathematicians (ICM2014), Seoul, South Korea.
15. Eigenvalue estimates for the Sturm-Liouville equation, 20160724-20160729, The 22nd International Conference on Difference Equations and Applications (ICDEA2016), Osaka Prefecture University, Japan.
16. Some inverse problems on the p-Laplacian, 20160908, Workshop on Spectral Analysis of Differential Operators and Related Topics, 淡江大學.
17. The order of eigenvalues for the Sturm-Liouville equation with the Dirichlet/Neumann boundary

conditions, 20170813-20170818, 2017 暑期海峽兩岸微分算子譜反演問題研討會, 南京理工大學, 中華人民共和國.

18. Some properties on the generalized sine function, 20180709-20180713, The 11th Mathematical Society of Japan (MSJ) Seasonal Institute (SI), Hokkaido University, Japan.

19. On the eigenvalue gap/ratio of Sturm-Liouville equations with eigenparameter dependent boundary conditions, 20190715-20190717, 第二屆海峽兩岸反譜問題與相關課題暨慶祝淡江大學數學系創系 60 週年學術研討會, 淡江大學.

註：本表若不敷使用請自行增列表格。

肆、治院理念摘要

本院在歷任院長的帶領與全體同仁的共同努力下，已建立完善的制度與發展規劃。未來，理學院的持續成長，有賴於所有教職員工生的投入與貢獻。我期許全體師生能與學院同步成長，共同打造良性循環，推動學術與人才發展。

本院秉持「以人為本」的核心價值，深信學院的成就奠基於全體教師與學生的發展與榮耀。因此，學院治理的首要任務在於凝聚內部共識，促進團結合作，並確立共同發展目標。透過順暢的縱向與橫向溝通機制，提升行政運作效率，使各項任務得以高效推動，發揮最大成效。

未來，我將秉持「公平合理」與「溝通包容」的原則，致力於建立一個和諧、進步且充滿發展潛力的學術環境，並期望從個人、系所至學院層級，逐步實現以下三大目標：**和諧、進步、發展**。

一、人才培育

- 落實「傳習教師制度」，促進經驗傳承。
- 落實公平合理的升等機制，提供優質且透明的職涯發展環境。
- 配合學校政策，推動企業與教育實習，強化學生的實務能力。

二、跨域特色

- 推動院內跨領域合作團隊，促進學術與研究創新。
- 強化師生、教師間的交流與合作，提升學術氛圍與團隊精神。
- 深化學校與產業間的互動，拓展產學合作機會，提升競爭力。

三、環境優化

- 落實校園安全措施，確保師生擁有安心的學習與研究環境。
- 積極爭取學術研究資源，包括人員經費、空間與相關學術服務，以提升研究品質與國際競爭力。

我將持續推動學院發展，以提升學術卓越與人才培育為核心目標，攜手全體師生共創理學院的輝煌未來。

註：本表若不敷使用請自行增列表格。