

# TEACHING FEEDBACKS

CHENGYANG WU

This file collects students' feedbacks from the courses that I have taught in their exercise sessions.

- (2025 Spring) Linear Algebra A (II).
- (2024 Spring) Higher Algebra (II), Honors Class.
- (2023 Fall) Higher Algebra (I), Honors Class.
- (2023 Spring) Higher Algebra (II), Honors Class.
- (2022 Fall) Higher Algebra (I), Honors Class.
- (2022 Spring) Mathematical Analysis (II).
- (2021 Fall) Linear Algebra B.

## 1. 2021 FALL, LINEAR ALGEBRA B

• (From Soliloquies) Chengyang Wu is a nice TA during learning Linear Algebra B. He did the work of homework grading and problem-solving guidance during office hour. Most importantly, he explains not only the answers but also the underlying logic from a higher point of view. For example, when solving the following problem: if  $n$  by  $n$  matrices  $A, B$  satisfies  $AB - BA = A$ , then exists a positive integer  $k$  such that  $A^k = 0$ . He explained the answers first using  $\text{Tr}(A^k)$  and construct  $p(A)$  using eigenvalues of  $A$ , then try to explain that this problem originates from Lie algebra and helps us to consider  $AB - BA$  as an operation on  $A$ , which motivates my learning interest in further learning.

## 2. 2022 SPRING, MATHEMATICAL ANALYSIS (II)

• (From David Yang (Denghong Yang)) Chengyang Wu was an exceptional teaching assistant who greatly enhanced my understanding of Mathematical Analysis. His explanations were always clear, patient, and tailored to students' needs. In the tutorial classes, he often expands the content, demonstrating his profound knowledge of this subject and genuine passion for teaching. His feedback on homework is also very timely, helping me identify my weaknesses and improve them. I highly recommend him. His dedication as a teaching assistant and teaching effectiveness are both outstanding.

• (From Ruoyu Wang) Dear Senior Wu,

As a student from your 2022 Spring Mathematical Analysis II class (Section 2), I'm writing to share my feedback on your teaching. Your dedication as a teaching assistant significantly enhanced our learning experience:

Meticulous Preparation: Your well-structured lessons clarified complex concepts.

Thoughtful Grading: Detailed comments on assignments helped pinpoint weaknesses.

Engaging Exercise Sessions: Beyond core knowledge, you integrated advanced topics (e.g., metric space applications) that deepened our analytical thinking.

The "holistic understanding" approach you emphasized allowed me to connect fragmented theories seamlessly. Wishing you every success in your overseas endeavors!

Best regards,

Ruoyu Wang, a Student from Math Analysis II, Spring 2022

• (From Xuanlin Zhu) Chengyang Wu was an exceptional Mathematical Analysis TA in Spring 2022. He meticulously prepared exercise sessions with handwritten notes and diverse materials, delivering precise yet witty explanations that fostered an engaging learning environment. Truly one of the best TAs during my undergraduate studies, he would be an invaluable asset to any institution.

- (From Li Wei) As a teaching assistant for the 2022 Spring Mathematical Analysis course, Mr. Wu Chengyang has left a lasting impression through his profound grasp of fundamental concepts and extensive knowledge. His problem-solving sessions were particularly rewarding—he consistently broke down complex theories into digestible insights, ensuring that even the most challenging topics felt approachable. What stood out most was his exceptional patience and attentiveness when addressing student questions; he never hesitated to clarify doubts thoroughly, fostering an inclusive and supportive learning environment. Beyond academics, Mr. Wu maintained a friendly and approachable demeanor, making him not just a mentor but also a trusted peer. His dedication to both teaching and student engagement truly enhanced the overall learning experience.
- (From Jingyang Huang) TA Wu demonstrated exceptional clarity in explaining complex concepts, always ensuring students understood core principles. His approachability during office hours and prompt responses to questions significantly enhanced my learning experience. He created a supportive environment that encouraged critical thinking, and his dedication to student success was evident throughout the course.
- (From Sam) TA Chengyang Wu was very dedicated and responsible throughout the Spring 2022 Mathematical Analysis course. His explanations were rigorous yet accessible, and his recitation sessions were particularly helpful. He provided prompt and careful feedback on homework, which greatly supported my learning.
- (From Mr. Chen) Mr. Wu is one of the TAs of my mathematics analysis course.  
 First, he is great at teaching. He explains the concepts clearly and in depth. He explains definitions and theorems intuitively, allowing me to better understand the motivation behind them, helping me better remember and apply them.  
 Second, he has very strong knowledge in the field. He gives interesting insights into course material from a more advanced perspective. This both helps me better grasp the concepts and gives me a glimpse into more advanced mathematics.  
 He is also thoughtful and considerate. He prepares detailed notes for each TA session so that students can refer to it after the sessions. He is aware of common mistakes and difficulties students can face, giving students useful tips on avoiding or overcoming them. He answers questions from each student patiently and in detail, taking note of common questions to answer during TA sessions.  
 In conclusion, Mr. Wu is an excellent TA with a strong combination of teaching ability, professional knowledge and interpersonal skills.
- (From Jason Wang) Wu Chengyang has been an exceptionally dedicated and responsible teaching assistant who provided me with tremendous support. During his tenure as the TA for Mathematical Analysis, he consistently demonstrated diligence and professionalism by carefully grading our assignments and patiently addressing our questions. His explanations during problem-solving sessions were clear and well-structured, which greatly enhanced my understanding of the course content. In addition, he was considerate enough to review my exam paper and grade late submissions with patience and fairness. I am sincerely grateful for his hard work and generous assistance, which greatly benefited my learning experience in this course.
- (From Yuke An) Teaching Evaluation for Chengyang Wu  
 I had the pleasure of attending Chengyang Wu's section of the Mathematical Analysis (Spring 2022) course, where he served as one of the teaching assistants. Chengyang was consistently clear, patient, and well-prepared in his teaching. His explanations were both rigorous and accessible, which greatly helped students grasp the subtleties of real analysis. He was also approachable during office hours, always willing to spend extra time to ensure students truly

understood the material. His ability to communicate abstract mathematical ideas with clarity and enthusiasm made a significant impact on my learning experience.

I am confident that Chengyang will bring the same dedication and effectiveness to any academic environment he joins.

### 3. 2022 FALL-2023 SPRING, HIGHER ALGEBRA (I)(II), HONORS CLASS

- (From Shiyu Xiu) Very Hardcore; Excellent Material.
- (From Sheng Bi) TA Wu's teaching methodology was truly exceptional. He possessed a remarkable ability to explain complex abstract concepts in a clear and accessible manner. His explanations were always penetrating yet easy to understand, which was instrumental in helping me, and I believe many others, grasp difficult material. More importantly, he didn't just present isolated facts; he skillfully connected different concepts, helping us build a comprehensive understanding of Algebra. He enabled us to see the bigger picture and establish a coherent conceptual landscape of the subject, which is invaluable for deeper learning.

His effectiveness extended beyond lectures. His explanations during exercise sessions were extremely clear and helpful. He consistently broke down problem-solving steps in ways that made challenging exercises feel manageable and logical.

Furthermore, TA Wu demonstrated exemplary dedication in his grading and feedback. He reviewed our assignments meticulously and thoughtfully. The comments he provided were not generic, but specifically tailored and highly constructive. This personalized feedback was incredibly useful for identifying my weaknesses, understanding mistakes, and knowing how to improve, making it an essential part of my learning process and significantly aiding my progress in Algebra.

- (From Xiaopeng Zheng) Mr. Wu demonstrated exceptional proficiency as a teaching assistant for Advanced Algebra (Honors). His lectures were consistently well-structured and logically coherent, enabling complex topics to unfold with remarkable clarity. He excelled at explaining concepts from advanced perspectives, frequently connecting foundational material to deeper mathematical theories, which significantly enriched our understanding. His approach exposed students to a broad spectrum of sophisticated methods, equipping us with valuable analytical tools beyond the standard curriculum.

Besides, his dedication to student development was evident in his thorough and careful grading of assignments. He provided detailed and constructive feedback, which solidified our grasp of the knowledge.

Beyond lectures and grading, Mr. Wu was exceptionally supportive and approachable. He offered patient and insightful guidance during office hours or consultations, always willing to clarify doubts and provide further explanation tailored to individual student needs.

Overall, Mr. Wu was an outstanding Teaching Assistant – knowledgeable, dedicated, and highly effective in elevating the learning experience for students in this challenging honors course.

- (From Yikai Zhu) Teaching Assistant Wu Chengyang was one of the TAs for my Honors Linear Algebra class during my freshman year. First of all, he was extremely responsible and diligent in assisting with homework and in-class Q&A sessions, always providing prompt responses. Secondly, he never failed to reply to my extracurricular questions, whether they were about advanced topics related to the course or research-based knowledge from other disciplines. He offered me highly effective guidance in my mathematical studies, truly living up to the role of a mentor. Regardless of whether I continue to pursue mathematics in the future, I will always remember the help and support he provided.

- (From Student Locus) Chengyang Wu is my teaching assistant(TA) in the course Linear Algebra. From my perspective, he is a conscientious TA and has a strong sense of responsibility. In addition to the common work of TA, including receiving, sending and correcting my homework, he must have made careful preparations for his exercise classes. Therefore, he could analyze the difficult problems clearly and incisively explain the contents important or hard to understand in each chapter for us.

- (From Yuan Lu) Dear Hiring Committee:

I am writing to enthusiastically recommend Chengyang Wu for teaching positions in mathematics. Wu was my teaching assistant for Advanced Algebra I (Honors) and Advanced Algebra II (Honors), which were taught by Professor Jinpeng An from Peking University during fall of 2022 and spring of 2023. Wu's responsibilities included grading homework and leading weekly exercise sessions. He carefully scored assignments, annotated even minor errors on students' assignments, and patiently addressed our questions, which made him a very dedicated and student-centered teaching assistant. What impressed me most was his endeavor to elevate the Honors curriculum beyond standard expectations. He wrote many pages of lecture notes for his exercise sessions, containing supplementary materials in linear algebra, abstract algebra, and even representation theory. I still remember that in his first exercise class, he introduced group objects in a category—a concept entirely new to me, and greatly deepened my understanding of abstract mathematics.

In summary, Chengyang Wu is a dedicated, well-prepared, and intellectually generous educator. His familiarity with teaching material and passion for teaching make him an exceptional candidate. I am confident he will excel in any academic environment and strongly endorse his application.

Sincerely,

Yuan Lu, Peking University

- (From Ruilin Wu) Dear ChengYang Wu,

As a student in your Linear Algebra Honors discussion section (Fall 2022), I wanted to provide feedback on your teaching.

I was particularly impressed by the depth and unique perspective you brought to the exercise class. You went beyond simple review, consistently revisiting lecture concepts from higher mathematical viewpoints.

A standout example was your session on quotient spaces. You not only reinforced the lecture material but also introduced fundamental isomorphism theorems and the Zassenhaus Lemma (with its memorable “butterfly diagram”). Most notably, you connected these ideas to universal properties in category theory.

This approach of linking core course content to deeper mathematical ideas was extremely valuable:

1. It significantly strengthened my understanding of the fundamental linear algebra concepts.
2. It sparked my interest in exploring more advanced mathematics, showing the beauty and connections beyond the syllabus.

Your clear explanations and evident enthusiasm made complex topics accessible and engaging. Overall, your recitations were a truly valuable part of the course, greatly enhancing my learning experience.

Sincerely,

Student Ruilin Wu

#### 4. 2023 FALL-2024 SPRING, HIGHER ALGEBRA (I)(II), HONORS CLASS

- (From Jiatong Lv) It was a privilege to have Chengyang Wu as our teaching assistant in Advanced Algebra I (Honor), 2023 Fall, Peking University. During the course, I witnessed his exceptional skills in mathematics and great dedication to teaching. In every lecture, his

explanations were very clear and consistently transformed complex abstract concepts into logical frameworks. All the topics covered in the course reflected exhaustive preparation. Every assignment was returned with comprehensive feedback. Besides, what impressed me most was that he developed self-contained teaching materials and uploaded them on his academic website. In summary, Chengyang Wu is not only a brilliant mathematician but also a great educator and mentor.

- (From Jack) I am providing teaching feedback regarding Teaching Assistant Wu Chengyang's performance in the Linear Algebra course. Mr. Wu stands out as one of the most dedicated and responsible TAs I have encountered at Peking University, demonstrated notably in the following areas:

1. Mr. Wu conducted detailed weekly problem-solving sessions with content that was appropriately challenging. His explanations were consistently clear and effective.

2. Proactively seeking to optimize learning outcomes, he contacted us after each session to gather feedback on difficulty levels. This ensured material accessibility and maximized the sessions' benefit for our coursework.

3. Demonstrating exceptional willingness to assist, Mr. Wu consistently provided detailed solutions whenever I approached him privately with questions from external materials – even though these fell outside his core teaching responsibilities. This immensely helped my understanding of the course.

4. Further supporting conceptual mastery, he shared supplementary materials on multiple occasions, significantly deepening my comprehension of course content.

Sincerely,

Jack

Peking University, Class of 2023

- (From Jinxing Zhou) Wu Chengyang, a senior student, served as a teaching assistant for the Advanced Algebra experimental class. During the exercise sessions, he provided detailed supplementary knowledge of the course, and he was also patient and prompt in answering students' questions outside of class. The Advanced Algebra lecture notes on his personal homepage have been of great help to me as well.

- (From Huaiying Qin) It is my genuine pleasure to provide feedback on the exceptional teaching assistance provided by Chengyang in our [Advanced Algebra Honour class]. His dedication, expertise, and pedagogical approach significantly elevated my understanding of this challenging subject and left a profoundly positive impression.

What stands out most distinctly is the extraordinarily well-prepared handout he meticulously crafted for our exercise sessions. It not only provided a comprehensive and rigorous coverage of all core advanced algebra concepts essential for the course but also ventured thoughtfully into introducing deeper abstract algebra theories. This scaffolded approach—solidifying fundamentals while offering glimpses into more advanced mathematical landscapes—was intellectually stimulating and demonstrated his deep subject mastery and commitment to fostering a richer understanding. The clarity and logical flow of these handouts made complex topics significantly more accessible and provided invaluable reference material for independent study.

Beyond the materials, Chengyang consistently exemplified intellectual humility and pedagogical patience. During exercise sessions and in private consultations alike, he addressed every question with a rare combination of modesty and rigorous attention to detail. There was never any condescension; instead, he engaged with curiosity and a genuine desire to ensure conceptual clarity, often rephrasing explanations or offering alternative perspectives until the core idea was grasped. His approachability was remarkable. Furthermore, his dedication was evident in his consistent practice of remaining after every single exercise session, actively ensuring that no student was left with unresolved questions before he departed.

Chengyang Wu possesses a unique blend of deep mathematical knowledge, exceptional communication skills, and a truly student-centered ethos. His ability to explain intricate abstract concepts with clarity and patience, coupled with his proactive efforts to ensure every student succeeds, makes him an outstanding educator. I have no doubt that his talents, work ethic, and natural aptitude for teaching will make him an invaluable asset in any future academic role he pursues overseas.

Sincerely,  
Huaiying Qin

- (From Peter) The teaching assistant delivered lessons based on his self-designed handouts. These materials were developed as an extension of the professor's lectures, offering substantial supplementary insights. The TA frequently employed abstract and higher-level perspectives, enriching the content and providing me with a more comprehensive understanding of the core ideas behind theorem proofs. His approach deepened my appreciation for the subject and enhanced my learning experience.

- (From Yao Ma) I had the privilege of being taught by Mr. Chengyang Wu when he served as a teaching assistant for our Advanced Algebra course. His teaching ability and rigorous attitude left a lasting impression on me. As his student, I was deeply influenced by both his academic clarity and dedication. Mr. Wu graded assignments with exceptional attention to detail, often pointing out not only technical errors but also subtle logical gaps in our reasoning—sometimes even within a single sentence.

During problem sessions, he regularly supplemented the material with important examples and propositions. He had a particular talent for presenting abstract concepts in a lucid and accessible manner, which significantly deepened our understanding of algebra.

In grading exams, Mr. Wu did not adhere rigidly to standard rubrics. Instead, he carefully evaluated whether students demonstrated a solid grasp of the key ideas and whether their approaches were mathematically valid. I found this thoughtful and respectful attitude toward student reasoning both rare and admirable. In addition, he authored a supplementary set of lecture notes for the course—published on his personal website—which provided valuable insights from a more advanced algebraic perspective. For instance, in the context of linear operator decompositions, he introduced the framework of modules over polynomial rings, which greatly enriched our learning experience.

Mr. Wu's commitment to teaching, his deep understanding of mathematical content, and his patient, student-centered approach all reflect his strong sense of responsibility and remarkable pedagogical skill. I hold him in the highest regard and recommend him without reservation.

- (From Peter Han) As a freshman, I took Advanced Algebra I and II labs, taught by Mr. Wu, who was one of the teaching assistants for these courses. He taught me the exercises for two semesters. Mr. Wu is a responsible teacher who carefully prepares and teaches the weekly exercises and writes LaTeX handouts for reference. His exercises contain interesting and slightly difficult content that supplements the main course material and improves my understanding of it. Mr. Wu helped me a lot both in and out of class. I could feel his love for math and his grasp of the subject from the way he talked about it. Overall, Mr. Wu is an excellent teacher!

## 5. 2025 SPRING, LINEAR ALGEBRA A (II)

- (From Yan) Teaching Feedback: Cheng Yang Wu - Linear Algebra A (Spring 2025)

Cheng Yang Wu demonstrated exceptional dedication and competence as a TA for Linear Algebra A. His teaching consistently reflected meticulous preparation and genuine investment in student success. He exhibited a strong sense of responsibility, making himself readily available during teaching hours. His teaching proficiency was outstanding. He possesses a deep conceptual mastery of linear algebra and a remarkable ability to clarify complex, abstract topics in an

intuitive manner. His explanations transformed challenging theoretical concepts into accessible knowledge, significantly aiding comprehension and application.

Furthermore, his patience and approachability fostered a supportive learning environment where students felt comfortable asking questions. He went beyond merely assisting with coursework, showing authentic concern for individual student understanding. His combination of high-level expertise, clear communication, and commitment to student development made him an invaluable asset to the Linear Algebra A course.

He performed his duties not just adequately, but to an exemplary standard. His skills and dedication would undoubtedly translate well into future academic or teaching roles overseas.

Provided voluntarily by: A student of him, Yan

- (From Xingyang Zhu) Difficult class but great lecturer. 1000+ page class material and super difficult exam without any practice exams. Even though the lecture is quite conceptual, professor Wu is super nice in class and office hours. He is definitely passionate in teaching and his research.

- (From Shane X) Mr. Wu Chengyang was my teaching assistant in Linear Algebra A (II) course in the 2024-2025 spring semester.

During the journey through this difficult course, Mr. Wu helped me to grasp the most important concepts and navigate through the course with a clear roadmap in mind. By clearly demonstrating the connection between matrices and linear spaces, Mr. Wu guided me to extend what I had learned in the previous semester to assist me in understanding new coursework. Mr. Wu was also patient in resolving questions, such as patiently answering questions concerning the calculation rules of tensors. His enthusiasm is also clearly displayed via various extra Q&A sessions on weekdays which he was not required to do so, as well as listening to the teacher's classes together with us in order to know how far we were going first-hand. Of course, occasionally there were issues Mr. Wu could not resolve on the spot, but he would surely research afterwards and provide a response in a timely manner.

Overall, Mr. Wu's help was essential for me to pass the course as well as gain a deeper understanding of linear algebra.

- (From Li Ming) To Whom It May Concern:

It is my pleasure to recommend Mr. Wu Chengyang. He served as my teaching assistant for the course Linear Algebra A during the Spring 2025 semester and performed exceptionally well.

Mr. Wu possesses a deep understanding of complex topics such as eigenvalues and vector spaces, coupled with extensive problem-solving experience. He excels at explaining these concepts in a clear and patient manner. During lectures, he consistently enhanced our learning by summarizing and expanding on lecture content, while skillfully utilizing assigned exercises to reinforce understanding. Outside of class, he was always willing to clarify doubts and deepen our knowledge. Mr. Wu provided prompt feedback on assignments, often offering multiple solution approaches, which significantly enriched my comprehension. His approachable nature encouraged questions, and he consistently guided students towards discovering solutions.

In summary, Mr. Wu Chengyang is an outstanding teaching assistant. His expertise, teaching ability, and dedication greatly enhanced my learning experience. I highly recommend him.

Sincerely,

Li Ming (pseudonym)

July 5 2025

- (From Owen) I am an undergraduate student in the School of Physics, Peking University. This semester, I took the Linear Algebra A2 course, where Mr. Wu Chengyang served as my teaching assistant. Mr. Wu is deeply committed to his teaching responsibilities. He patiently and meticulously graded every assignment I submitted, carefully marked errors and

provided clear solutions. He regularly conducted exercise classes with progressively challenging problems that not only reinforced key concepts from lectures but also introduced advanced topics. Whenever I asked questions during these sessions, Mr. Wu always offered thoughtful and detailed explanations. Thanks to Mr. Wu's guidance, my understanding of linear algebra had been significantly improved, enabling me to apply these mathematical principles to other courses such as Theoretical Mechanics and Quantum Mechanics. This foundational support was instrumental to my ideal performance in both midterm and final examinations. I sincerely appreciate Mr. Wu's dedicated efforts throughout this semester.

- (From Shouheng Lv) Assistant Wu Chengyang is very active in teaching Linear Algebra. He is extremely patient in answering students' questions. The preparation for the exercise classes is thorough and the content is very rich. The homework grading is done carefully and efficiently.