"I am passionate about education reform and aspire to lead a large agency where I can influence education discourse and policy. SPA's MPA is helping me develop my leadership skills and pursue my profession of purpose."

- Portia Polk

Master of Public Administration, 2018

Areas of Concentration:

Master of Public Administration

Department of Public Administration and Policy 2022-23
MISSION STATEMENT

The mission of the AU Master of Public Administration program is to instill the knowledge, skills, and values necessary to manage and lead with distinction in government and related organizations that serve the public good in the U.S. democratic context and abroad.

Goals/Objectives - We will achieve our mission by preparing students to:

1. **Apply acquired knowledge** about administration/management/leadership in contemporary public and related organizations and systems.
2. **Allocate administrative and programmatic resources** based on analytic decision making.
3. **Analyze administrative problems, craft solutions**, and communicate them effectively to relevant stakeholders.
4. **Incorporate a range of values** into administrative actions, including democratic/constitutional values, respect for the diversity of people and perspectives in the policy process, and administrative values such as responsiveness, accountability, effectiveness, and equity.

For the foreseeable future, the United States and other governments worldwide face the challenge of discerning how best to harness the energy and expertise of public servants, the passion and commitment of nonprofit organizations, and the dynamism and creativity of markets in the pursuit of democratic and constitutionally informed public purposes.

Through our teaching and unique location in Washington, D.C., we seek to help meet this challenge by enhancing the knowledge, professional skills, and leadership potential of our students in their public service careers.

We educate students entering, engaged in, and interacting with government agencies in the U.S. and abroad.

We treat administration and policy as interrelated subjects strongly influenced by the values of public service and democratic constitutionalism.

Through our research and civic involvement, we also seek to enhance what is practiced and taught in our field.

We seek to attract a diverse group of talented students. We encourage their active involvement in learning, research, and professional activity and strive to enhance their appreciation of the responsibilities of public service.
MPA PROGRAM CORE

The MPA degree program is built around 7 required core courses, 2 management electives from a list of options, and 4 electives or courses encompassing a selected area of concentration (though students are not required to name a concentration). The total program is comprised of 13 courses or 39 credit hours.

CORE REQUIREMENTS (21 credits)
1. PUAD 612 Introduction to Public Administration and the Policy Process (3)
2. PUAD 605 Quantitative Methods for Public Managers (3) OR PUAD 601 Quantitative Methods for Policy Analysis I (3)
3. PUAD 616 Legal Basis of Public Administration (3)
4. PUAD 630 Public Managerial Economics (3) OR PUAD 670 Economics for Policy Analysis (3)
5. PUAD 633 Budgeting and Financial Management (3) OR PUAD 631 Financing Government Services (3)
6. PUAD 684 Organizational Analysis (3)
7. PUAD 610 Public Administration Capstone (3)

PUBLIC MANAGEMENT ELECTIVES (6 credits)
A minimum of two courses (6 credits) from the following:
- PUAD 609 State and Local Management (3)
- PUAD 615 Public-Private Partnerships (3)
- PUAD 617 Project Management (3)
- PUAD 650 Leadership in a Changing Workplace (3)
- PUAD 665 Managing Human Capital Assets (3)
- PUAD 681 Managing Nonprofit Organizations
- PUAD 685/696 (Regulatory Policy and Management (3))
- Program Performance Evaluation/Management (3) *(PUAD 605 or equivalent)
- Other Special Topics (Individual topics courses require approval by Advisor or Program Director)

ELECTIVE COURSES REPRESENTING AREA OF CONCENTRATION
4 courses (12 credits) – see attached pages.

INTERNSHIP
Students without a significant professional work background participate in either a for-credit or non-credit internship. Students taking a for-credit internship complete PUAD 691 as part of the concentration; students taking a non-credit internship complete a survey on the experience.

PUBLIC ADMINISTRATION CAPSTONE EXPERIENCE
Assignments in the capstone course (PUAD 610), including a major management analysis paper, fulfill the university requirement for a capstone experience. The capstone course should be taken in the final semester of study and is offered in fall and spring semesters only.

1 PUAD 601 and 670 are restricted to students planning a concentration in Policy Analysis; these courses are prerequisites for other policy analysis concentration courses.
2 Students with significant professional experience may apply to waive the internship requirement, with Advisor approval.
MPA AREAS OF CONCENTRATION

Each student constructs his or her area of concentration, suited to his or her individual career goals. Students should consult academic advisors and department faculty for help in selecting concentration courses. Interviews with alumni and practitioners may also help students identify suitable subjects. Some students select established concentrations; others assemble courses around their own special needs. Students should plan their areas of concentration early in their programs, since some of the courses may be offered only once or twice during the overall period of study. Some areas of concentration offer an optional focus field - an additional layer of specialization - for interested students.

Students who follow one of the established concentrations in this booklet may have the concentration listed on their final transcript (for example, “Master of Public Administration with concentration in Public Management”). These concentrations are:

1. Nonprofit Management
   - Arts Management Focus
2. International Management
3. Public Management
   - Management Consulting Focus
   - Human Resources Management Focus
4. State and Local Administration
5. Public Financial Management
6. Policy Analysis
7. Public Policy
   - Social Policy Focus
   - Education Policy Focus
   - Health Policy Focus
   - Environmental Policy Focus
   - Science and Technology Policy Focus
8. Applied Politics
9. Race, Policy and Administration
10. Cyber Policy and Management, In Process

MPA students may also develop a customized concentration with the approval of an academic advisor. In the past, students have developed such concentrations as Justice, Law and Criminology, and Homeland Security. In addition, the Consortium of Universities of the Washington Metropolitan Area offers several opportunities for the development of other specializations not offered at AU. For additional information, consult your academic advisor.

A customized concentration cannot be posted to a student’s final transcript, but we recommend that it be listed on the resume.

Note: Course numbers and titles may change.
1. NONPROFIT MANAGEMENT (12 credits)

Faculty Advisors: Professors Lewis Faulk, and Khaldoun AbouAssi.

Nonprofit organizations play a substantial role in the formulation and delivery of public services. This concentration introduces students to a variety of general management practices used in the nonprofit sector: defining organizational missions, building effective governance structures, acquiring resources, maintaining high standards of fiscal, legal, and professional accountability, managing human resources, and thinking strategically. More broadly, this concentration educates students in the many administrative challenges faced by small community-based or large professionalized organizations in today’s “networked economy” where organizations increasingly interact, compete, and collaborate with other service providers, policymakers, and regulators.

Required Courses (6 credits)

1. PUAD 681 Managing Nonprofit Organizations (3)
2. Select one of the following two courses:
   a. PUAD 682 Nonprofit Resource Development (3)
   b. PUAD 685 Nonprofits and Public Policy (3)

Suggested Courses/Recent Offerings to Complete Requirements:

- PUAD 608 Comparative Administrative Systems (3)
- PUAD 613 Global Governance and Public Policy (3)
- PUAD 615 Public-Private Partnerships (3)
- PUAD 619 Ethical Issues in Public Policy (3)
- PUAD 633 Budgeting and Financial Management (3)
- PUAD 685 Program Performance Evaluation/Management (3)* (PUAD 605 or equivalent)
- PUAD 685 Development Governance and Management (3)
- PUAD 685 Grant Management (3)
- PERF 596 Arts Enterprise (3)
- AMGT 608 Grant Writing for Nonprofit Organizations (3)
- AMGT 631 Governance and Leadership (3)
- AMGT 633 International Cultural Management (3)
- AMGT 670 Survey of Arts Management (3)
- AMGT 671 Marketing the Arts (3)* (AMGT 670)
- AMGT 682 Technology and Marketing the Arts (3)
- SIS 635 NGO Management: Best Practice (3)
- MGMT 670 Nonprofit and Social Entrepreneurship (3)
- ACCT 560 Governmental and Not-for-Profit Accounting (3) *(ACCT 607)

To complete this concentration, students may take other graduate-level courses in policy, management, or small business administration, upon approval of Program Director.

*indicates prerequisite
**Arts Management Focus**
This concentration, a joint effort of the Department of Public Administration and Policy and the Department of Performing Arts, prepares students for the administrative work associated with the presentation of music, theater, and other arts. Enrollment requires departmental approval – please contact your advisor for details.

**Additional Required Course for the Arts Management Focus (3)**
AMGT 671 Marketing the Arts (3) *(AMGT 670)

*Indicates prerequisite
2. INTERNATIONAL MANAGEMENT (12 credits)

Faculty Advisor: Professor Khaldoun AbouAssi.

Washington, D.C. is at the center of an increasingly interdependent global network of trade, communication, and security. The international management concentration helps students understand the nature of management responsibilities that bridge different cultures, including those involving foreign relations, international organizations (including NGOs), and social and economic development. Students interested in this concentration have the option of taking courses offered in the highly regarded School of International Service (SIS).

Required Courses (6 credits)

1. PUAD 608 Comparative Administrative Systems (3)
2. PUAD 685 Development Governance and Management (3)

Suggested Courses/Recent Offerings to Complete Requirements:

• PUAD 613 Global Governance and Public Policy (3)
• PUAD 681 Managing Nonprofit Organizations (3)
• PUAD 685 Grant Management (3)
• PUAD 685/696 Special Topics (Require approval of Advisor or Program Director)
• SIS 635 NGO Management: Best Practices (3)
• SIS 635 NGO/Social Enterprise Management (3)
• SIS 636 Micropolitics of Development (3)
• SIS 637 International Development (3)
• SIS 642 Intercultural Relations (3)

Other options include courses from the School of International Service, the Department of Economics, and the School of Public Affairs, with approval of Advisor or Program Director.
3. PUBLIC MANAGEMENT (12 credits)

Faculty Advisors: Professors Jocelyn Johnston and Nathan Favero.

This concentration strengthens the knowledge and skills of people called upon to work as line managers or administrative support staff in public service or related organizations. It draws upon the strengths of the department as a national center for the teaching of public management.

Required Course (3 credits)
1. PUAD 617  Project Management (3) - (Public Management Elective)

Suggested Courses/Recent Offerings to Complete Requirements:
- PUAD 608  Comparative Administrative Systems (3)
- PUAD 609  State and Local Management (3)
- PUAD 615  Public-Private Partnerships (3)
- PUAD 619  Ethical Issues in Public Policy (3)
- PUAD 650  Leadership in a Changing Workplace (3)
- PUAD 652  Facilitation and Team Development (3)
- PUAD 654  Organization Diagnosis and Change (3)
- PUAD 665  Managing Human Capital Assets (3)
- PUAD 681  Managing Nonprofit Organizations (3)
- PUAD 685  Development Governance and Management (3)
- PUAD 685  Grant Management (3)
- PUAD 685  Program Performance Evaluation and Management (3)* (PUAD 605 or equivalent)
- PUAD 685  Regulatory Policy and Management (3)
- PUAD 685  Race, Policy and Administration
- PUAD 696  Immigration/Disasters/Dept of Homeland Security Policy/ Mngt(3)
- MGMT 660  Entrepreneurship and Innovation (3)

Management Consulting Focus
Persons with expertise in public administration are often asked to analyze and reform public service organizations. Such persons may do so as external consultants, internal auditors, or members of special task forces. Drawing on the broader group of course offerings in public management, this concentration helps students exercise the responsibilities associated with management consulting and institutional change. Professors Robert Tobias and Patrick Malone advise students on this specialization.

Additional Required Courses for the Management Consulting Focus (6)
PUAD 652  Facilitation and Team Development (3)
PUAD 654  Organization Diagnosis and Change (3)
**Human Resources Management Focus**

Successful leaders of public service organizations recognize the importance of managing and motivating their workforces. They know that developing human capital is critical for promoting organizational effectiveness. This concentration helps students to understand the strategic role of human resources planning, develop skills to prepare employees for change, and improve management and employee relationships. Professor Jocelyn Johnston advises students on this concentration.

**Additional Required Course for the Human Resources Management Focus (3)**

- PUAD 665  Managing Human Capital Assets (3)

*Indicates prerequisite*
4. STATE AND LOCAL ADMINISTRATION (12 credits)

Faculty Advisor: Professor Jocelyn Johnston and David Schwegman.

The State and Local Administration concentration prepares students for the political and administrative intricacies of delivering public services in an increasingly intergovernmental context. Students are encouraged to include at least one relevant policy course and as many budgeting/finance courses as possible. Additional policy courses are available in the Department of Justice, Law and Criminology.

Required Course (3 credits)
1. PUAD 609  State and Local Management (3)

Suggested Courses/Recent Offerings to Complete Requirements:

- PUAD 615  Public-Private Partnerships (3)
- PUAD 619  Ethical Issues in Public Policy (3)
- PUAD 631  Financing Government Services (3) *(PUAD 630 or 670)
- PUAD 633  Budgeting and Financial Management (3)
- PUAD 665  Managing Human Capital Assets (3)
- PUAD 685  Urban Policy and Community Development (3)
- PUAD 685  Politics and Policy in DC (3)
- PUAD 685/696  Selected Topics:
  o  Environmental Sustainability and Public Policy (3)
  o  Education and the American Policy System (3)
  o  Public Policies for the Environment and Energy (3)
  o  Healthcare Policy (3)
  o  Housing Policy (3)
  o  Race, Policy and Administration (3)
  o  Immigration/Disasters/Dept of Homeland Security Policy/ Mngt (3)
  o  Social Welfare Policy and Programs (3)
  o  Health Economics and Policy (3)
  *(PUAD 630 or PUAD 670)

- SIS 635  Urban Development (3)

*indicates prerequisite
5. PUBLIC FINANCIAL MANAGEMENT (12 credits)

Faculty Advisors: Professors Carla Flink, David Schwegman, and Jocelyn Johnston.

Program analysts, financial officers, budget officers, and financial analysts are found throughout, and at all levels of government (national, state, and local). They administer and design programs, prepare and analyze budget proposals, evaluate programs, forecast revenues, collect taxes, allocate monies, advise legislators, inspect programs, and prepare financial statements. The Public Financial Management concentration helps to prepare students for the many responsibilities involved with the management of public programs, operations and funds.

Required Course (3 credits)
1. PUAD 633 Budgeting and Financial Management (3) (Core course)

Suggested Courses/Recent Offerings to Complete Requirements:
- PUAD 619 Ethical Issues in Public Policy (3)
- PUAD 631 Financing Government Services (3) *(PUAD 630 or 670)
- PUAD 671 Cost-Benefit Analysis (3) *(PUAD 630 or PUAD 670)
- PUAD 685 Program Performance Evaluation/Management (3) *(PUAD 605 or equivalent)
- ACCT 607 Financial Accounting (3)

Other options include courses in the Kogod School of Business, the Department of Economics, or other units, with approval of MPA Program Director.

*indicates prerequisite
6. POLICY ANALYSIS (12 credits)

Faculty Advisors: Professors Seth Gershenson, Dave Marcotte, Laura Langbein.

An increasingly large number of persons perform policy analysis, evaluate public programs, or conduct research on behalf of the public at large. By merging required MPA management courses with selected courses from MPP degree, this concentration combines knowledge about the administrative functions essential to policy analysis with the skills necessary to conduct the actual studies.

Required Courses (12 credits)

1. PUAD 602  Quantitative Methods for Policy Analysis II (3)
   *(PUAD 601. Note: PUAD 605 will not satisfy this prerequisite.)
2. PUAD 606  Foundations of Policy Analysis (3)
3. Select two of the following five courses (6):
   a) PUAD 604  Public Program Evaluation (3) *(PUAD 602)
   b) PUAD 607  Economics and Politics of Public Policy (3)
   *(PUAD 606 or PUAD 630 or PUAD 670)
   c) PUAD 671  Cost-Benefit Analysis (3)
   *(PUAD 630 or PUAD 670)
   d) PUAD 672  Advanced Quantitative Methods for Policy Analysis (3) *(PUAD 602)
   e) PUAD 685  Qualitative Methods (3)
   f) PUAD 685  Health Economics and Policy (3)
   *(PUAD 630 or PUAD 670)

MPA students taking this concentration must substitute PUAD 601 Quantitative Methods for Policy Analysis I for PUAD 605 Quantitative Methods for Public Managers, and PUAD 670 Economics for Policy Analysis for PUAD 630 Public Managerial Economics.

*indicates prerequisite
7. PUBLIC POLICY (12 credits)

This concentration combines the management and leadership strengths of the MPA program with policy courses for students interested in either general public policy or a particular policy area. Faculty Advisors: Professors Daniel Fiorino (Environmental Policy), Jocelyn Johnston (Social and/or Health Policy), Dave Marcotte, and Seth Gershenson (Education Policy), and Howard McCurdy (Science and Technology).

Required Course (3 credits)
1. PUAD 606 Foundations of Policy Analysis (3)

Suggested Courses/Recent Offerings to Complete Requirements:
- PUAD 685/696 Selected Topics:
  - Social Welfare Policy and Programs (3)
  - Healthcare Policy (3)
  - Child and Family Policy (3)
  - Education and the American Policy System (3)
  - Housing Policy (3)
  - Health Economics and Policy (3)* (PUAD 630 or PUAD 670)
  - Urban Policy and Community Development (3)
  - Environmental Sustainability and Public Policy (3)
  - Public Policies for the Environment and Energy (3)
  - Regulatory Policy and Management (3)
  - Race, Policy and Administration (3)
  - Program Performance Evaluation and Management (3)* (PUAD 605 or equivalent)
  - Immigration/Disasters/Dept of Homeland Security Policy/Mgt (3)

Social Policy Focus
The social policy focus teaches students how to utilize governmental and nongovernmental tools to address challenges imposed by poverty, hunger, educational deficiencies, unemployment, and discrimination.

Suggested Courses/Recent Offerings to Complete Requirements:
- PUAD 685/696 Selected Topics:
  - Social Welfare Policy and Programs (3)
  - Healthcare Policy (3)
  - Urban Policy and Community Development (3)
  - Child and Family Policy (3)
  - Education and the American Policy System (3)
  - Race, Policy and Administration (3)
  - Housing Policy (3)
  - Immigration/Disasters/Dept of Homeland Security Policy/Mgt(3)
Education Policy Focus
The education policy focus teaches students how to utilize governmental and nongovernmental tools to address challenges imposed by poverty, hunger, educational deficiencies, unemployment, and discrimination.

Suggested Courses/Recent Offerings to Complete Requirements:
- PUAD 685/696 Selected Topics:
  - Education and the American Policy System (3)
  - Social Welfare Policy and Programs (3)
  - Urban Policy and Community Development (3)
  - Child and Family Policy (3)
  - Race, Policy and Administration (3)

Health Policy Focus
This focus allows students to gain an appreciation for the issues confronting policymakers and analysts working on health and related issues in the U.S. and abroad.

Suggested Courses/Recent Offerings to Complete Requirements:
- PUAD 685/696 Selected Topics:
  - Healthcare Policy (3)
  - Health Economics and Policy (3)
  - *(PUAD 630 or PUAD 670)
  - Social Welfare Policy and Programs (3)
  - Child and Family Policy (3)

Environmental Policy Focus
This focus allows students to gain an appreciation for the issues confronting policymakers and analysts working on environmental issues in the U.S. and abroad.

Suggested Courses/Recent Offerings to Complete Requirements:
- PUAD 685/696 Selected Topics:
  - Environmental Sustainability and Public Policy (3)
  - Public Policies for the Environment and Energy (3)
  - Additional courses approved by Advisor or Program Director

Science and Technology Policy Focus
This focus allows students to gain an appreciation for the issues confronting policymakers and analysts working on scientific, technological, and environmental issues in the U.S. and abroad.

Suggested Courses/Recent Offerings to Complete Requirements:
- PUAD 685/696 Selected Topics:
  - Environmental Sustainability and Public Policy (3)
  - Public Policies for the Environment and Energy (3)
  - Regulatory Policy and Management (3)
Cyber Policy and Management Focus
This focus prepares students to understand, analyze, and manage the dynamics of the
cyber policies that are critical to effective governance.

Suggested Courses/Recent Offerings to Complete Requirements:

- JLC 683        Cyber Threats and Security (3)
- JLC 665         Who’s Who in U.S. Cyber Policy (3)
- JLC 696         Emerging Technology for Non-Technical Policy Makers (3)
- JLC 696         Cybercrime and Cyber-Enabled Crime (3)
- SIS 619         Cyber Conflict: Surveillance, Activism and Privacy (3)

*indicates prerequisite
8. APPLIED POLITICS (12 credits)

Faculty Advisors: Professor Candice Nelson (on the first set of courses). See Professor Johnston for direction on this concentration.

The Applied Politics concentration incorporates two fields offered through the school’s Department of Government. The first field covers politics, campaign management, and lobbying and serves students aiming to involve themselves as managers in the effort to influence the course of government through the electoral or political process. It draws upon the educational programs offered by the school’s Campaign Management Institute and Center for Congressional and Presidential Studies. The second field encourages students to think strategically about the challenges confronted by policymakers concerned with women’s issues. It addresses women, public policy, and political leadership and draws upon course work offered through the school’s nationally renowned Women & Politics Institute.

Any of the courses listed below satisfy this concentration, but are listed in optional (not required) areas of focus.

Politics, Campaign Management and Lobbying Focus

Suggested Courses/Recent Offerings to Complete Requirements:

- GOVT 520 Advanced Studies in Campaign Management: Campaign Management Institute (4)
- GOVT 521 Topics in Campaign Management (1)
- GOVT 523 The Art and Craft of Lobbying
  - European Public Affairs Institute (3)
  - Public Affairs and Advocacy Institute (4)
- GOVT 524 Topics in Public Affairs and Advocacy (1)
- GOVT 641 The Politics of Mass Communication (3)
- GOVT 645 Political Parties, Interest Groups, and Lobbying (3)
- GOVT 656 Voting Behavior, Elections and Campaigns
- GOVT 682 Women and Politics (3)

Women, Public Policy, and Political Leadership Focus

Suggested Courses/Recent Offerings to Complete Requirements:

- GOVT 682 Women and Politics (3)
- GOVT 683 Women, Politics and Public Policy (3)
- GOVT 684 Women and Political Leadership (3)
- GOVT 685 Topics in Women and Politics
  (Various topics – 1-3 credits each)
- JLC 635 Gender and the Law (3)
- SIS 648 Gender and Development (3)
9. RACE, POLICY, AND ADMINISTRATION (12 credits)

Faculty Advisors: Professors Reginald Wells, Derek Hyra, Jocelyn Johnston.

This concentration enables students to examine the role of race and ethnicity in public policy and administration. Topics of study include: racial disparities in policy making, implementation, public management, and outcomes for citizens at the local, state, and federal levels; diversity and inclusion strategies in policymaking and public administration; and the role of race in key policy areas (including urban, housing, justice, health, and education policy). Several courses also explore race as a social construct and the political, historical, and economic roots of racialization.

Required Course (3 credits)
- PUAD 685 Race, Policy, and Administration (3)

Suggested Courses/Recent Offerings to Complete Requirements (9 credits):
- PUAD 609 State and Local Policy (3)*
- PUAD 685/696 Selected Topics:
  - Urban Policy and Community Development (3)
  - DC Politics and Policy (3)*
  - Education Policy in America (3)*
  - Housing Policy (3)*
  - Social Welfare Policy and Programs (3)*
  - Healthcare Policy (3)
  - Health Economics and Policy (3)*(PUAD 630 or PUAD 670)
- JLC 610 Justice and Public Policy: Controversial Issues (3)
- JLC 638 Race and Justice in America (3)
- JLC 651 Drugs, Crime, and Public Policy (3)*
- ANTH 621 Health Geographies (3)
- EDU 611 Social Theory and Educational Practice (3)*
- HLTH 660 Multicultural Health (3)*
- SOCY 653 Intersectionality: Theory/Practice (3)
- SOCY 661 Racial Inequality and Social Transformation (3)

*While race is not the predominant focus of these courses, it plays a critical role throughout the course.
10. CYBER POLICY AND MANAGEMENT (12 credits)**

Faculty Advisors: Professors Jocelyn Johnston and Sasha O’Connell.

This concentration prepares students to understand, analyze, and manage the dynamics of the cyber policies that are critical to effective governance across public agencies, levels of government, and in nonprofit organizations and contracting agencies. The concentration courses will include the history, development, and management of U.S. cyber policy, and a range of frameworks that can be used to facilitate and protect the flow of information and communication through sound cyber policies designed to enhance the success of organizations and public services. Professors Sasha O’Connell and Jocelyn Johnston provide faculty advising on this concentration.

Suggested Courses/Recent Offerings to Complete Requirements (12 credits):

- PUAD 617 Project Management (3)
- PUAD 696 Immigration, Disasters, and Dept of Homeland Security Policy/Mngt (3)
- JLC 665 Who’s Who in U.S. Cyber Policy
- JLC 683 Cyber Threats and Security
- JLC 696 Emerging Technology for Non-Technical Policy Makers
- JLC 696 Cybercrime
- SIS 619 Cyber Conflict: Surveillance, Activism and Privacy

**This concentration will be fully implemented by Fall 2022.

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