COLLEGE OF HUMANITIES
THE UNIVERSITY OF UTAH
255 S. Central Campus Drive | Room 2100 | Salt Lake City | UT | 84112
phone 801.581.6214 | humanities.utah.edu

December 13, 2018

Curriculum Committee
Office of Undergraduate Studies
Sterling Sill Center
CAMPUS

Dear Committee Members,

I am writing to offer my endorsement of the proposed Bachelor's degree in the Philosophy of Science and to assure you that the College has in place appropriate advising and student services to support majors in this exciting new field.

The major has been carefully constructed with a focus on advising and faculty resources. The current departmental advisor has participated in the development of the curriculum, and the department has worked with me and our College's assistant dean on strategies for promoting the major and educating advisors across the College about the major. What makes this major unique is the participation of other disciplines from across the College of Humanities. This major does not require a set of new courses, but rather highlights some of our most innovative courses from a number of areas. Current faculty members in the Department of Philosophy and their colleagues in allied areas, such as Communication, Writing and Rhetoric and History, have a strong record of both teaching and research in the major's required subjects. In short, I feel confident that the College has the resources to support this new major, which promises to be a signature undergraduate program at the University.

Sincerely,

Stuart Culver
Dean, College of Humanities

Department of Psychology
THE UNIVERSITY OF UTAH

October 22, 2018

To whom it may concern,

I am writing to offer my enthusiastic support for the proposed Bachelor's in *Philosophy of Science* at the University of Utah. As the Director of Undergraduate Studies for the Department of Psychology, I have reviewed the proposal and am excited to support its addition to the programmatic offerings at the University of Utah.

While housed in the Department of Philosophy, this major requires students to satisfy a 'Science' requirement by taking at least 3-upper division courses in a single scientific or social science discipline. In meeting with Matt Haber, we considered whether this will work well for the majors who wish to add Philosophy of Science as a second major, how it might impact our curriculum and capacity to serve undergraduates, and whether any additional constraints or requirements ought to be included for stand-alone Philosophy of Science majors using PSY courses to satisfy their Science requirement.

We are happy to report that the proposal is thoroughly developed and will fit seamlessly into our curriculum without any cause for concern about staffing or class availability. Our psychology majors will find the set of General Education courses included in the Philosophy of Science major attractive (regardless of whether they add it as a second major), and many may decide to add it as a second major given its distinctive training component. For example, we do not offer many courses on ethics, which is one of our 5 learning outcomes for our majors. So, our majors may be interested in taking some of the Philosophy of Science courses to fulfill this objective. For stand-alone Philosophy of Science majors, we identified a set of requirements that will provide them with a technical grounding in Psychology. We are not only able to accommodate this curricular requirement, but welcome it.

The proposal to add a Philosophy of Science major at the University of Utah is both intellectually sound and well-constructed. It provides a truly interdisciplinary approach to training undergraduates, and a set of General Education courses that will enhance a science education. I am happy to offer my full support for the Bachelor's in Philosophy of Science and look forward to working with the program.

Sincerely,

Jeanine K. Stefanucci, Ph.D.
Associate Professor and Director of Undergraduate Studies
University of Utah
Department of Psychology
jeanine.stefanucci@psych.utah.edu
(801)-585-7895

THE UNIVERSITY OF UTAH

Mathematics
155 S. 1400 E. Room 233 Salt Lake City, Utah 84112-0090 801-581-6851 FAX 801-581-4148

October 8, 2018

To Whom It May Concern:

I am writing to offer my support for the proposed B.S. in *Philosophy of Science* at the University of Utah. My support is based on careful review of the program, in consultation with the Chair of Philosophy and the Associate Chair of Mathematics in charge of teaching, as well as direct review of the proposal. I find the proposal to be well conceived, and a welcome addition to the programmatic offerings at the University of Utah.

The major is proposed by the Department of Philosophy, and requires students to satisfy a Science requirement by taking at least 3 upper-division courses in a single science or social-science discipline. We have met with Professor Matt Haber to discuss how the proposed degree program would work with the Department of Mathematics. We considered whether this will work well for our majors who wish to add Philosophy of Science as a second major, how it might impact our curriculum and capacity to serve undergraduates, and whether any additional constraints or requirements ought to be included for stand-alone Philosophy of Science majors who take Mathematics courses in order to satisfy their Science requirement.

I am happy to report that I find the proposal to be thoroughly developed and well thought out. I believe that Mathematics majors will find the set of General Education courses included in the Philosophy of Science major attractive, regardless of whether they add it as a second major, and that many will find adding it as a second major a compelling way to add a distinctive component to their training at the University of Utah.

For stand-alone Philosophy of Science majors, we identified a set of requirements that will provide them with a solid technical grounding in mathematics. This included requiring MATH 3210, *Foundations of Analysis I*. We are not only able to accommodate this curricular requirement, but we welcome the addition. This is a reasonable expectation to place on Philosophy of Science students, and will provide them with a solid foundation in the core of mathematics.

The proposal to add a Philosophy of Science major at the University of Utah is both intellectually sound and well-constructed. It provides a truly interdisciplinary approach to training many of our undergraduate students. The proposed Bachelor's in Philosophy of Science has my full support. I look forward

to working with the program in the future.

Sincerely,

Davar Khoshnevisan
Professor, and Chair of Mathematics

THE UNIVERSITY OF UTAH

Mathematics
155 S. 1400 E. Room 233 Salt Lake City, Utah 84112-0090 801-581-6851 FAX 801-581-4148

September 26, 2018

To Whom It May concern:

I am writing to offer my enthusiastic support for the proposed Bachelor's degree in Philosophy of Science at the University of Utah. As the Academic Advising Coordinator for the Department of Mathematics, I have reviewed the proposal and find that it is a well-conceived and welcome addition to the programmatic offerings at the University of Utah.

I am also the Coordinating Advisor for the College of Science, and one of my duties is the scheduling of partner offices in the Crocker Science Center Advising Hive. The Department of Philosophy has asked whether the Philosophy of Science advisor might rotate through the advising hive as their major comes on line. This will both permit the opportunity to educate our science advisors about this major (and its various General Education course offerings), and allow their advisor to communicate directly with our majors. I am happy to extend this invitation, and believe it will be jointly beneficial.

What science majors will find particularly attractive about this major is the identification of General Education courses that will enhance their study of science. This includes a set of courses from Philosophy, and also the Departments of English, Communication, History, Linguistics, and Writing Rhetoric. These courses will help our students move forward on their path to completion, even if they do not ultimately add Philosophy of Science as a second major.

I suspect that some of our students will choose to add Philosophy of Science as a second major. Adding this degree to a science major will signal to prospective employers and graduate programs that our students have a rich, broad, and interdisciplinary skill set.

Overall, the proposal to add a Philosophy of Science major at the University of Utah is both intellectually sound and well-constructed. It provides an interdisciplinary approach to training undergraduates, a set of General Education courses that will enhance a science education, and an attractive second major option for our Science students. I am happy to offer my full support for the Bachelor's in Philosophy of Science and look forward to working with the program.

Sincerely,

Angie Gardiner

School of
BIOLOGICAL SCIENCES
COLLEGE OF SCIENCE | THE UNIVERSITY OF UTAH

257 South 1400 East, Rm 201 Salt Lake City, Utah 84112-0840
Phone (801) 581-6517 Fax (801) 581-4668 www.biology.utah.edu

September 24, 2018

To Whom It May concern:

I am writing to offer my enthusiastic support for the proposed Bachelor's in *Philosophy of Science* at the University of Utah. I am the Associate Chair for the School of Biological Sciences, and along with the Curriculum Committee, we have reviewed the proposal, and find that it is a well-conceived and welcome addition to the programmatic offerings at the University of Utah.

While housed in the Department of Philosophy, we like this major because it requires students to satisfy a 'Science' requirement through Biology our introductory Fundamentals lecture courses (BIOL 1610 and 1620), and three upper division courses (including one at the 5000-level and two that within the same emphasis), and also taking a lab course. The curriculum committee and I have met with Matt Haber to discuss how this will work with The School of Biological Sciences. We considered whether this will work well for our majors who wish to add Philosophy of Science as a second major, how it might impact our curriculum and capacity to serve undergraduates, and whether any additional constraints or requirements ought to be included for stand-alone Philosophy of Science majors using BIOL courses to satisfy their Science requirement.

We are happy to report that the proposal is thoroughly developed and well thought out. Our majors will find the set of General Education courses included in the Philosophy of Science major attractive (regardless of whether they add it as a second major), and many will find adding it as a second major a compelling way to add a distinctive training component. For stand-alone Philosophy of Science majors, we identified a set of requirements that will provide them with a technical grounding in biology. This includes requiring four upper-division courses, at least one of which must be at the 5000-level or higher, and two of which must be in the same emphasis (by our designations). Though we are in the midst of adjusting our own major requirements, this approach is flexible enough that it should adapt well.

We are not only able to accommodate the curricular requirement including the Philosophy of Science major, but welcome it. This is a reasonable expectation to place on these students, and will provide them with a solid foundation in biology.

The proposal to add a Philosophy of Science major at the University of Utah is both intellectually sound and well-constructed. It provides a truly interdisciplinary approach to

training undergraduates, and a set of General Education courses that will enhance a science education. I am happy to offer my full support for the Bachelor's in Philosophy of Science and look forward to working with the program.

Sincerely,

Leslie Sieburth

Professor and Associate Chair
School of Biological Sciences

THE UNIVERSITY OF UTAH

Department of Anthropology
Carolyn and Kem Gardner Commons, Suite 4449 Salt Lake City, Utah 84112 801-581-6251

September 17, 2018

To Whom This May Concern:

I am writing to offer my enthusiastic support for the proposed Bachelor's in *Philosophy of Science* at the University of Utah. As the Chair for the Department of Anthropology, I have reviewed the proposal and find that it is a well-conceived and welcome addition to the programmatic offerings at the University of Utah.

While housed in the Department of Philosophy, this major requires students to satisfy a 'Science' requirement by taking at least 3-upper division courses in a single scientific or social science discipline. We have met with Matt Haber to discuss how this will work with the Department of Anthropology. We considered whether this will work well for our majors who wish to add Philosophy of Science as a second major, how it might impact our curriculum and capacity to serve undergraduates, and whether any additional constraints or requirements ought to be included for stand-alone Philosophy of Science majors using ANTH courses to satisfy their Science requirement.

We are happy to report that the proposal is thoroughly developed and well thought out. Our majors will find the set of General Education courses included in the Philosophy of Science major attractive (regardless of whether they add it as a second major), and many will find adding it as a second major a compelling way to add a distinctive training component. For stand-alone Philosophy of Science majors, we identified a set of requirements that will provide them with a technical grounding in anthropology. This includes the use or requirement of ANTH courses in several possible tracks through the philosophy of science majors. We are not only able to accommodate this curricular requirement, but welcome it. This is a reasonable expectation to place on these students, and will provide them with a solid foundation in anthropology.

The proposal to add a Philosophy of Science major at the University of Utah is both intellectually sound and well-constructed. It provides a truly interdisciplinary approach to training undergraduates, and a set of General Education courses that will enhance a science education. I am happy to offer my full support for the Bachelor's in Philosophy of Science and look forward to working with the program.

Sincerely,

Leslie A. Knapp
Professor and Chair

THE UNIVERSITY OF UTAH

Department of Geology and Geophysics
University of Utah
135 South 1460 East
Salt Lake City, Utah 84112-0111

10 September 2018

To Whom It May concern:

I am writing to offer my enthusiastic support for the proposed Bachelor's in *Philosophy of Science* at the University of Utah. As the Department Head for Department of Geology and Geophysics, I have reviewed the proposal and find that it is a well-conceived and welcome addition to the programmatic offerings at the University of Utah. Moreover, the academic and research faculty in attendance of the 7 September 2018 faculty meeting voted unanimously in support of the proposal and welcomes this new degree program.

While housed in the Department of Philosophy, this major requires students to satisfy a 'Science' requirement by taking at least 3-upper division courses in a single scientific or social science discipline. We have met with Matt Haber to discuss how this will work with the Department of Geology & Geophysics. We considered whether this will work well for our majors who wish to add Philosophy of Science as a second major, how it might impact our curriculum and capacity to serve undergraduates, and whether any additional constraints or requirements ought to be included for stand-alone Philosophy of Science majors using GEO courses to satisfy their Science requirement.

We are happy to report that the proposal is thoroughly developed and well thought out. Our majors will find the set of General Education courses included in the Philosophy of Science major attractive (regardless of whether they add it as a second major), and many will find adding it as a second major a compelling way to add a distinctive training component. For stand-alone Philosophy of Science majors, we identified a set of requirements that will provide them with a technical grounding in the Earth sciences. We are not only able to accommodate this curricular requirement, but welcome it. This is a reasonable expectation to place on these students, and will provide them with a solid foundation in the geosciences.

The proposal to add a Philosophy of Science major at the University of Utah is both intellectually sound and well-constructed. It provides a truly interdisciplinary approach to training undergraduates, and a set of General Education courses that will enhance a science education. On behalf of the faculty in Geology & Geophysics, I am happy to offer my full support for the Bachelor's in Philosophy of Science and look forward to working with the program.

Sincerely,

Thure Cerling
Chair, Department of Geology and Geophysics

DEPARTMENT OF HISTORY
COLLEGE OF HUMANITIES
THE UNIVERSITY OF UTAH

215 S. Central Campus Drive | Room 310 | Salt Lake City | UT | 84112
phone 801.581.6121 | history.utah.edu

11 September 2018

To Whom It May concern:

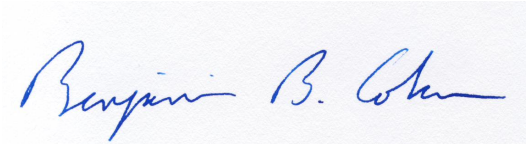
I am writing to offer my enthusiastic support for the proposed Bachelor's in *Philosophy of Science* at the University of Utah. As Chair of the Department of History I have a special interest in this program, as we are closely involved in one of the tracks envisioned for it, "History and Philosophy of Science." We welcome this partnership and look forward to an engaged and stimulating relationship between our departments.

The Philosophy of Science major includes a proposed emphasis in *History & Philosophy of Science* (HPS). As the name implies, this emphasis includes a requirement that students take at least one course in the history of science. The Department of History has several faculty that teach such courses, and we met with the Department of Philosophy to ensure they identified a set of courses that we welcome staffing and offer on a regular basis.

An HPS emphasis makes sound disciplinary sense. It represents an important way that historians and philosophers of science have carved out an interdisciplinary approach to the study of science. I know that many of the philosophers of science in the Department of Philosophy were trained in this approach, and we are eager to share that with our joint students.

This is a well-conceived and welcome addition to the programmatic offerings at the University of Utah. The proposal to add a Philosophy of Science major at the University of Utah is both intellectually sound and well-constructed. It provides a truly interdisciplinary approach to training undergraduates, and a set of General Education courses that will enhance a science education. We are not only able to accommodate this curricular requirement, but welcome it. I am happy to offer my full support for the Bachelor's in Philosophy of Science and look forward to working with the program.

Sincerely,



J. Willard Marriott Library
THE UNIVERSITY OF UTAH
295 South 1500 East Salt Lake City, Utah 84112-0860 (801) 581-8558

September 6, 2018

Matt Haber, Ph.D.
Chair, Department of Philosophy
The University of Utah
Language and Communication Building
255 Central Campus Drive, RM 2100
Salt Lake City, UT 84112

Dear Dr. Haber,

The J. Willard Marriott Library appreciates your request to comment on our ability to support a Philosophy of Science major within the Department of Philosophy. The Marriott Library has sufficient holdings to support learning and research in this program.

The Library has been supporting faculty and graduate studies in philosophy for many years. And for decades, the Library has also supported undergraduate and graduate programs in a variety of physical, life, social and applied sciences.

The Library regularly acquires scholarly books in philosophy, philosophy of science and other related disciplines. We are able to purchase specific books upon request, and we encourage faculty and students to work with librarians to build Marriott Library collections in any needed areas. Notably, the Library has significant endowment funds supporting monograph purchases in philosophy.

The Library currently maintains subscriptions to a number of important journals that would support this major. The Library subscribes to *Philosophical Review; Journal of Philosophy; Nous; Mind; Philosophy of Science; British Journal for the Philosophy of Science; Synthese; Biology & Philosophy; Philosophy and Theory in Biology; Studies in History and Philosophy of Science Parts A, B, and C; Review of Philosophy and Psychology; Science and Education; HOPOS: The Journal of the International Society for the History of Philosophy of Science;* and the *European Journal for Philosophy of Science*. Though some of these titles have been requested by faculty, due to lack of funding the Library does not presently subscribe to these core journals in the field: *International Studies in the Philosophy of Science; Metascience; Erkenntnis*; and *Foundations of Physics.* However, the Library does have extensive holdings in physics, chemistry, biology, medicine and other supporting disciplines.

Students in this program will also have access many useful databases; including the *Philosopher's Index;* the *PhilSci-Archive; PhilPapers; Scopus; Web of Science; Dissertations & Theses Global; Academic Search Ultimate; Essay and General Literature Index; Humanities &*

Social Sciences Index Retrospective; Academic One File; the *Religion & Philosophy Collection;* and many others.

Professional library staff offer training workshops, online tutorials, and one-on-one consultations to University of Utah students and faculty. Similarly, we offer consultations with library specialists who will suggest appropriate search strategies and help students locate relevant resources for their course-related and independent research projects.

The Marriott Library is looking forward to engagement with the faculty and students in this new program.

Sincerely,

Mark England

Mark England
Head, Collection Management
J. Willard Marriott Library

John Belz
Associate Professor
Director of Undergraduate Studies
Dept. of Physics & Astronomy
University of Utah
Salt Lake City, UT 84112
August 31, 2018

To Whom It May concern:

I am writing to offer my enthusiastic support for the proposed Bachelors in Philosophy of Science at the University of Utah. As the Director of Undergraduate Studies for the Department of Physics and Astronomy, I have reviewed the proposal and find that it is a well-conceived and welcome addition to the programmatic offerings at the University of Utah.

While housed in the Department of Philosophy, this major requires students to satisfy a "Science" requirement by taking at least 3-upper division courses in a single scientific or social science discipline. We have met with Matt Haber to discuss how this will work with the Department of Physics and Astronomy. We considered whether this will work well for our majors who wish to add Philosophy of Science as a second major, how it might impact our curriculum and capacity to serve undergraduates, and whether any additional constraints or requirements ought to be included for stand-alone Philosophy of Science majors using PHYS or ASTR courses to satisfy their Science requirement.

We are happy to report that the proposal is thoroughly developed and well thought out. Our majors will find the set of General Education courses included in the Philosophy of Science major attractive (regardless of whether they add it as a second major), and many will find adding it as a second major a compelling way to add a distinctive training component. For stand-alone Philosophy of Science majors, we identified a set of requirements that will provide them with a technical grounding in physics. This included specifying two different tracks for your majors, one in Physics and the other in Astronomy, both of which require PHYS 3740 *Introduction to Quantum Theory and Relativity.* We are not only able to accommodate this curricular requirement, but welcome it. This is a reasonable expectation to place on these students, and will provide them with a solid foundation in physics or astronomy.

The proposal to add a Philosophy of Science major at the University of Utah is both intellectually sound and well-constructed. It provides a truly interdisciplinary approach to training undergraduates, and a set of General Education courses that will enhance a science education. I am happy to offer my full support for the Bachelor's in Philosophy of Science and look forward to working with the program.

Sincerely,

John Belz
Associate Professor of Physics
Director of Undergraduate Studies

Salt Lake Community College

August 30, 2018

To Whom It May Concern:

I offer this Letter of passionate and enthusiastic support for the proposed Bachelor's Degree in *Philosophy of Science* at the University of Utah. As the Associate Professor of Philosophy for Humanities, Language, and Culture Department at Salt Lake Community College, I write to express how enormously positively this will impact us as fellow USHE Philosophy Program.

The Department of Philosophy at the University of Utah has developed their proposed Major with characteristic thoughtfulness, and it will be an appealing destination Program for many SLCC students. This will be especially true for many students that are Sociology or Anthropology Majors. Notably, the "Philosophy of Social Science" track provides them with an appealing option that will highly motivate them to transfer to the University of Utah.

The proposed Major also provides a "path to completion" for SLCC transfers to the University of Utah. Our students complete many of the pre-requisite Courses in the science, and upon transfer will be well positioned to satisfy the Degree requirements for this Major. They will effectively be able to enter the Program as advanced students, with a very reasonable expected time to Degree completion.

In addition to the way Philosophy of Science will function as a conduit between SLCC and the University of Utah, it will also be a welcome intellectual addition to the USHE Philosophy Program offerings. It is a unique offering in the State of Utah and the Mountain West Region that reflects the University of Utah's particular strengths. This will resonate throughout the USHE System and beyond, notably in the extracurricular offerings that the University of Utah plans to attach to this Program. They regularly invite other USHE members (faculty, students and staff) to attend and participate in these events, to the great academic benefits of everybody involved. They have been good USHE partners, and this new Major will be enthusiastically embraced by our peers in the State of Utah and regionally.

In sum, I offer my full, strongest support for the Bachelor's Degree in Philosophy of Science at the University of Utah, and look forward to working closely with the Program. Please, feel free to contact me by phone (801)-957-3714 or email alexander.izrailevsky@slcc.edu if you have any questions.

Associate Professor of Philosophy at SLCC,

Dr. Alexander M. Izrailevsky

Dr. Alexander Izrailevsky

August 31, 2018

To Whom It May Concern:

As the Chair of the Department of Chemistry's Undergraduate Education Committee, I am writing to offer my enthusiastic support for the proposed Bachelor's degree in *Philosophy of Science* at the University of Utah, to be offered in the Department of Philosophy. I have reviewed the proposal and consider it to be a well-conceived program of study. In my opinion, it will be a welcome addition to the current programmatic offerings at the University of Utah. Quite honestly, I was surprised to learn that a degree in *Philosophy of Science* was not already available on our campus.

While the major will be housed in the Department of Philosophy, it requires students to satisfy significant requirements in Science by taking at least 3 upper-division courses in a single scientific or social science discipline. The Department of Chemistry's undergraduate advisor, Tascha Knowlton, met with Matt Haber to design an appropriate set of Chemistry courses for those Philosophy of Science majors who choose Chemistry as their scientific discipline. They considered how this program may work for Chemistry majors who may want to add Philosophy of Science as a second major and how the new major will affect our curriculum in Chemistry and our capacity to serve undergraduates.

The proposal is thoroughly developed and well-designed. Our majors will find the set of General Education courses included in the *Philosophy of Science* major attractive, regardless of whether they add it as a second major. Many will find adding it as a second major a compelling way to add a distinctive element to their own background. For stand-alone *Philosophy of Science* majors, the required courses provide excellent technical grounding in chemistry. These include CHEM 3000 (Quantitative Analysis) and a laboratory course at the level of CHEM 5700 or higher, along with the necessary prerequisite courses. The major will also require the student take either CHEM 3060 (Quantum Chemistry and Spectroscopy) or CHEM 3070 (Thermodynamics and Chemical Kinetics), and one additional 3000-level Chemistry course. The requirement that either (1) Quantum Chemistry or (2) Thermodynamics must be taken is a very good one, as these two courses touch on topics of great interest in the philosophy of science: (1) How a probabilistic theory at microscopic scales is compatible with the deterministic theory of classical mechanics, which is valid at macroscopic scales, and (2) How irreversible behavior (such as the irreversible melting of an ice cube in hot coffee) can be compatible with the time-reversibility of classical and quantum mechanics. These are fundamental questions of great interest in the *Philosophy of Science*. Overall, these course requirements will provide students with a solid foundation in chemistry.

The proposal to add a Philosophy of Science major at the University of Utah is both intellectually sound and well-constructed. It provides a truly interdisciplinary approach to training undergraduates, and a set of General Education courses that will enhance a science education. I am happy to offer my full support for the Bachelor's in Philosophy of Science and look forward to working with the program.

Sincerely,

Michael D. Morse

Michael D. Morse
Professor of Chemistry and Chair, Undergraduate Education Committee
(801) 581-8319
morse@chem.utah.edu

DEPARTMENT OF CHEMISTRY
315 SOUTH 1400 EAST ROOM 2020
SALT LAKE CITY UT 84112-0850
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DEPARTMENT OF PHILOSOPHY
THE UNIVERSITY OF UTAH

Matt Haber
Chair, Department of Philosophy
University of Utah
matt.haber@utah.edu

Sep. 6, 2018

To Whom It May Concern,

I offer this letter to express my very strongest support for the proposal to offer a major in *Philosophy of Science* in the Department of Philosophy at the University of Utah. As a department, we voted 14-0 at our fall 2018 retreat to support this proposal, and our faculty enthusiastically welcome it as an additional option to serve our undergraduates.

This proposal is the culmination of a nearly twenty-year strategic plan in the department, one that intentionally and systematically developed a top tier research program in the philosophy of science. We are now recognized as a top-25 program in that field, as well as a top-10 program in philosophy of biology.

As proud as we are of establishing our reputation as a center of research excellence in philosophy of science, as a department we are just as proud of our reputation for teaching excellence on campus. We not only view our teaching and research missions as being on par, but inextricably linked. So it is fitting that our strategy to develop our philosophy of science program led to the proposal for this new major in philosophy of science.

This proposal is a natural outcome of the intentional way we approach teaching and research. As we established ourselves as a top program in philosophy of science, courses were added that reflected our faculty's teaching interest. Our faculty are passionate about bringing their research into the classroom, and using that classroom experience, in turn, to drive their research and include students in that process. Existing courses were revised to reflect this content and aim, and many new courses were offered to expand this approach. Courses like "Science & Society," "Philosophy of Biology," and "Inductive Logic," among many others.

When I look at the courses that make up the core of this proposal, those are the courses I see. As a set of course offerings they reflect a clear and distinct disciplinary interest, and one that our undergraduates will now be able to specialize in through this new major. It reflects our faculty's unique collective expertise and passion, and our students will benefit from our faculty's reputation in the field.

As chair, I can also speak to the nuts-and-bolts of this proposal. Importantly, we are not requesting any additional resources to support this proposal. All but a handful of the courses are already regularly offered. The few that are not are courses we have been wanting to add and think will be popular (e.g., 3000-level courses in research ethics, or feminist philosophy of science). Should capacity need to be added for some of these courses, we can meet that by re-allocating teaching assignments among our career line lecturers and graduate TAs. We are primed and ready to offer this to our students.

Since this will be a Department of Philosophy major, most of the administrative work and resources are shared with the administration of our regular major. We have the capacity to run this program with ease. The biggest shift we will see is in demands on our department advisor. As it stands, our advisor is classified as a part-time advisor and a part-time administrator. This year we are piloting expanding her advising duties, and shifting some of the administrative duties to a work-study. As the Philosophy of Science major comes on line, the expansion of advising duties will shift from promotion, development, and construction of the major, to recruitment and advising. We anticipate this will be a smooth transition, and we have the resources to maintain a work-study position to pick up administrative duties.

Finally, in constructing this proposal we have reached out to affiliate departments on campus. The major is designed to work as either a stand-alone or second major, and to build interdisciplinary alliances across our campus. I have been meeting with advisors, undergraduate directors, and chairs from the Colleges of Science, Social & Behavioral Sciences, and Mines & Earth Sciences. Without fail the proposal has been met with enthusiasm and strong support. Advisors love the way it is constructed around General Education Pathways; Undergraduate directors appreciate the way it will enhance their majors' study and appreciation of sciences; chairs see the potential for building cross-disciplinary alliances through our students. Faculty are now approaching me with the possibility of using the major to help highlight interdisciplinary areas of study that might otherwise go undocumented (one of which, Paleontology, has been included in this proposal). This proposal is going to serve our undergraduates well, and provide the foundation to develop interdisciplinary groups on campus.

So it is with the utmost confidence that I offer my highest level of support to this proposal. It reflects our unique strength as a department, and provides direct access of that to our undergraduates. It is a unique offering in our region, and in the PAC-12 (only the University of Washington offers something of the same scale). That we are able to offer this as an institution is a testament to the University of Utah, and puts us among a very select group of research universities that we view as our peers.

Yours sincerely,

Matthew H. Haber
Chair, Department of Philosophy
University of Utah

COLLEGE OF HUMANITIES
THE UNIVERSITY OF UTAH
255 S. Central Campus Drive | Room 2100 | Salt Lake City | UT | 84112
phone 801.581.6214 | humanities.utah.edu

September 6, 2018

Letter of Support for Proposed BA and BS in *Philosophy of Science*

I am writing to offer my enthusiastic support for the proposed Bachelor's degrees in the Philosophy of Science at the University of Utah. I have reviewed the proposal in its final form and believe it is a unique program that has been well conceived and designed. It will be a welcome addition to the curriculum of the Department of Philosophy and the College of Humanities, and an important addition to higher education across the state.

In my former role as Associate Dean for Academic Affairs I worked with both the Department Chair and the Director of Undergraduate Studies to develop this major, which takes advantage of some of the department's most popular and impactful courses currently being offered while highlighting some of the most significant and highly-respected research being carried out by the Philosophy faculty. I encouraged the department to include other courses in the Humanities among the major's electives, believing that courses such as Science Communication, Writing in the Sciences and the History of Science can help both Philosophy majors and those science majors who may pursue this program as a second major gain a broader and more nuanced understanding of the activity of science in both theory and practice. At the center of this course of study, of course, will be the classes the Philosophy Department will offer in areas such as research ethics and epistemology, addressing the nature of verification and certainty in science.

This major will also provide majors in the science with a pathway through their general education requirements that will carry a meaningful relevance to their professional careers. This interdisciplinary program of study is part of a wider effort by the College to develop curricula that underscore the ways in which the Humanities collaborate with and contribute to other disciplines. One such parallel program is our recently established minor in Medical Humanities.

I would further emphasize the importance of the quality and impact of the on-going scholarly work in this area by several members of the department. Students will be taking classes that are informed by cutting-edge research and, I believe, this course of study will allow for students to engage their own in research projects. This is a distinctive program that takes advantage of the resources and faculty we have in our College. I strongly urge its approval.

Sincerely,

Stuart Culver
Dean of the College of Humanities
University of Utah

THE UNIVERSITY OF UTAH

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August 30, 2018

To Whom It May concern:

I am writing to offer my enthusiastic support for the proposed Bachelor's in *Philosophy of Science* at the University of Utah. As an Assistant Professor in the Department of Geology & Geophysics, I have reviewed the proposal and find that it is a well-conceived and welcome addition to the programmatic offerings at the University of Utah.

While housed in the Department of Philosophy, this major requires students to satisfy a 'Science' requirement by taking at least 3-upper division courses in a single scientific or social science discipline. I have met with Matt Haber to discuss how this might work for students interested in focusing on paleontology. Though there is no major or minor in paleontology, we have a set of courses that provide just the kind of disciplinary focus to satisfy a science track for philosophy of science majors. In working up a paleontology track for your students, we considered how it might work with a Geology & Geophysics major, how it might impact our curriculum and capacity to serve undergraduates, and whether any additional constraints or requirements ought to be included for stand-alone Philosophy of Science majors using paleontology courses to satisfy their Science requirement.

I am happy to report that the proposal is thoroughly developed and will form an attractive option for many of our students who are initially excited about pursuing paleontology at the beginning of their studies. We have many students who want to major in Paleontology, and are disappointed to learn they need to choose biology or geology curricula. The philosophy classes will appeal to many of these students, who may choose to take up the Philosophy of Science program as an addition or as a change of direction. Similarly, this formal track of study will help more students discover our research and education offerings in the College of Mines and Earth Science. For stand-alone Philosophy of Science majors, we identified a set of courses that will provide them with a technical grounding in paleontology. This is a reasonable expectation to place on these students, and will provide them with a solid foundation in paleontology. Even more exciting, because it will be offered as an emphasis in the major, it also provides students with a means of documenting a disciplinary set of courses that otherwise go unrecognized.

The proposal to add a Philosophy of Science major at the University of Utah is both intellectually sound and well-constructed. It provides a truly interdisciplinary approach to training undergraduates, and a set of General Education courses that will enhance a science education. I am happy to offer my full support for the Bachelor's in Philosophy of Science and look forward to working with the program.

Sincerely,

Kathleen Ritterbush
University of Utah, Department of Geology & Geophysics
Frederick Albert Sutton Building, 115 S 1460 E, Rm 383, Salt Lake City, Utah, 84112